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August 19, 2013

Mr. Nanjunda Gowda
Work Assignment Manager
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, IL 60604

Subject: **Letter Report**
Ellsworth Industrial Park – Operable Unit 1
Downers Grove, DuPage County, Illinois
Technical Direction Document No.: S05-0008-0710-019
Document Control No.: 320-2A-BIRD
Contract No.: EP-S5-06-04

Dear Mr. Gowda:

The Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) prepared this letter in accordance with the tasks outlined in Technical Direction Document (TDD) No. S05-0008-0710-019. The letter serves to present additional information related to the Soil Screening Level (SSL) calculations for the migration to groundwater pathway for Operable Unit 1 (OU1) of the Ellsworth Industrial Park (EIP) (the Site). The Draft Remedial Investigation (RI) Report, Revision 0 (WESTON, 2009) previously presented the SSL calculations. Relevant information related to the SSL calculations is included as Attachments to this letter. **Attachment A** provides the alluvial aquifer potentiometric surface map. **Attachment B** provides revised Tables I-1 and I-2. **Attachment C** provides relevant boring logs. **Attachment D** provides a geologic cross-section location map and cross sections E-E', H-H', and K-K'. The information provided in the attachments was previously included in the Draft Remedial Investigation (RI) Report, Revision 0 (WESTON, 2009).

The hydraulic gradient was calculated using groundwater elevations obtained in February 2007 from monitoring wells screened within the alluvial aquifer. Based on the potentiometric surface presented on Figure 3-10 (**Attachment A**), it is apparent that flow through the alluvial aquifer is complex and varies widely across the Site. The flow gradient along the western portion of the Site is less than across the eastern portion. In an effort to obtain an average flow rate for the entire Site, the hydraulic gradient was calculated in the western, central, and eastern portions of the Site. Additionally, it is noted that the magnitude of the flow gradients presented is fairly consistent. A range of hydraulic gradients from 0.018 to 0.049 feet per foot (ft/ft) is within the expected range of flow for a complex aquifer system with heterogeneous conditions.

Table I-1 (**Attachment B**) presents the site-specific SSLs for the migration to groundwater pathway for Site contaminants of concern that were calculated using the site-specific hydraulic conductivity. Table I-2 (**Attachment B**) presents the calculation of the site-specific hydraulic conductivity using the geometric mean. The wells used to calculate the Site hydraulic

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conductivity for the alluvial aquifer were selected based on the lithology encountered in the well borings. Relevant boring logs are included in **Attachment C** and geologic cross-sections are included in **Attachment D**. Wells screened entirely, or predominantly in coarse-grained materials (sands and gravels) were included in the calculation whereas wells screened in predominantly fine-grained materials (silts and clays) with minor sand/gravel lenses were not included in the calculation. The hydraulic conductivity of the excluded wells is not believed to be representative of the alluvial aquifer as the hydraulic conductivity is limited by the predominance of the fine-grained materials.

If you have any questions or require additional information, please feel free to contact me at (773) 315-1959.

Sincerely,
WESTON SOLUTIONS, INC.

Joseph Ruiz
WESTON START Project Manager

Attachments:
A – Potentiometric Surface Map
B – Tables I-1 and I-2
C – Boring Logs
D – Geologic Cross Sections

cc: WESTON START DCN File

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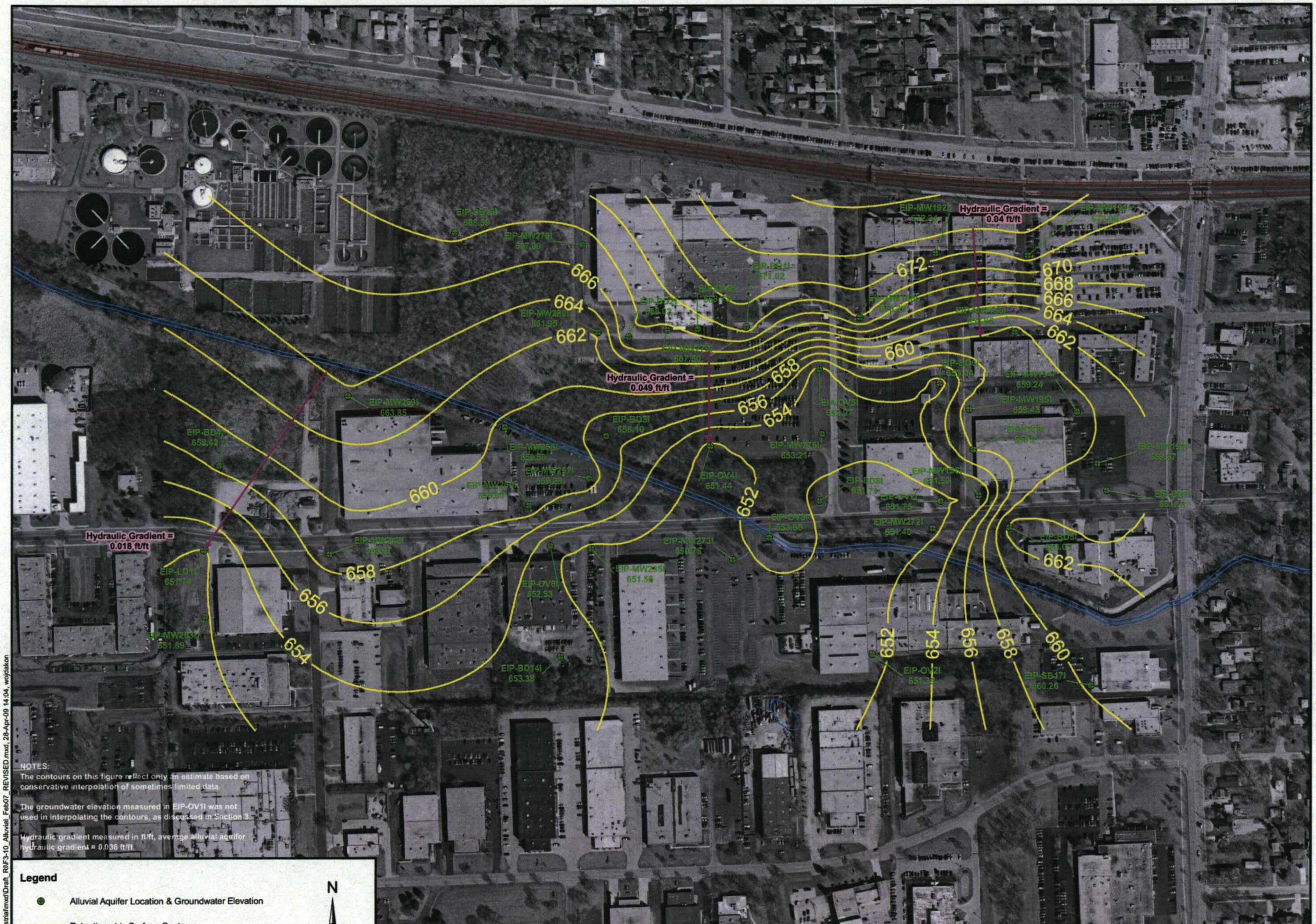
ATTACHMENT A
POTENTIOMETRIC SURFACE MAP



NOTES:
The contours on this figure reflect only an estimate based on conservative interpolation of sometimes limited data.

The groundwater elevation measured in EIP-OV1I was not used in interpolating the contours, as discussed in Section 3.

Hydraulic gradient measured in ft/ft, average alluvial aquifer hydraulic gradient = 0.036 ft/ft.

Legend

- Alluvial Aquifer Location & Groundwater Elevation
- Potentiometric Surface Contours
- Railroads
- Rivers

0 200 Feet

N

Base layers & ortho imagery obtainned from Dupage County - Dec 2005

WESTON SOLUTIONS

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Vernon Hills, IL 60061

Prepared For:
US EPA Region V
START Contract

Contract: EP-S5-0604
TDD: S05-0008-0710-019
DCN: 320-2A-ABHE

Figure 3-10
Alluvial Aquifer Potentiometric Surface Map - February 2007
Ellsworth Industrial Park
Downers Grove, Illinois

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ATTACHMENT B
TABLES I-1 AND I-2

Table I-1
Calculation of Soil Screening Levels for the Migration to Groundwater Pathway
Ellsworth Industrial Park Site
Downers Grove, Illinois

Equation 10 - Soil Screening Level Partitioning Equation for Migration to Ground Water (Soil Screening Guidance: User's Guide, July 1996)
SSL (for migration to groundwater) = Cw * |Kd + (θw + θa * H')/ρb|

Chemical	Groundwater Objectives - MCLs (mg/L)	DAF (unitless)	Cw (mg/L)	Koc (L/kg)	Adjusted foc (g/g)	Kd (L/kg)	θw (L/L)	θa (L/L)	ρb (kg/L)	H' (unitless)	Migration to Groundwater SSL (mg/kg)
Primary Chlorinated Solvents											
1,1,1-Trichloroethane	0 2	114	2.27E+01	110	0.011	1.19	0.3	0.13	1 5	0.705	**3.3E+01**
Tetrachloroethene	0.005	114	5 68E-01	155	0.011	1.68	0.3	0.13	1.5	0 754	**1.1E+00**
Trichloroethene	0 005	114	5.68E-01	166	0.011	1 80	0 3	0 13	1 5	0 422	**1.2E+00**
Secondary Chlorinated Solvents											
1,1-Dichloroethane	4	114	4.54E+02	31 6	0.011	0.34	0 3	0 13	1.5	0 23	**2.6E+02**
1,2-Dichloroethane	0 005	114	5.68E-01	17.4	0.011	0.19	0 3	0.13	1.5	0.0401	**2.2E-01**
1,1-Dichloroethene	0 007	114	7.95E-01	58.9	0.011	0.64	0.3	0.13	1.5	1.07	**7.4E-01**
cis -1,2-Dichloroethene	0.07	114	7.95E+00	35.5	0 011	0.39	0.3	0.13	1.5	0.167	**4.8E+00**
trans -1,2-Dichloroethene	0 1	114	1.14E+01	52.5	0.011	0.57	0.3	0.13	1.5	0.385	**9.1E+00**
Carbon tetrachloride	0 005	114	5 68E-01	174	0.011	1.89	0.3	0.13	1.5	1.25	**1.2E+00**
Vinyl chloride	0.002	114	2.27E-01	18.6	0.011	0.20	0.3	0.13	1.5	1.11	**1.1E-01**

Equation 11 - Derivation of Dilution Factor (Soil Screening Guidance: User's Guide, July 1996)
DAF = 1 + (K*i*d)/(I*L)

K (m/yr)	i (m/m)	d (m)	I m/yr	L (m)	DAF (unitless)
4100	0.036	4.80	0 14	45	114

Equation 12 - Estimation of Mixing Zone Depth (Soil Screening Guidance: User's Guide, July 1996)
$d = (0.0112*L^2)^{0.5} + da * [1 - exp[(-L*I) / (K*i*da)]]$

da (m)	L (m)	I (m/yr)	K (m/yr)	i (m/m)	d (m)
7 6	45	0 14	4100	0 036	4 80

References:
Soil Screening Guidance: User's Guide (U.S EPA 1996c)
Supplemental Guidance for Developing Soil Screening Levels for Superfund Sites (U.S. EPA 2002)
35 IAC 742 - TACO (IEPA 2007a)

Notes:
da = aquifer thickness (m), value of 7.6 m (25 ft) used to approximate overall alluvial aquifer thickness.
L = source length parallel to groundwater flow (m), default value of 45 m is used and is based on a square area of 0.5 acres
I = Infiltration rate (m/yr), default value of 0 14 m/yr used - representative of Glacial Till Over Outwash - Table 6 (U.S. EPA 1996c)
K = hydraulic conductivity (m/yr); geometric mean of K values from slug tests performed in alluvial aquifer - see Table I-2 for data and calculation
i = hydraulic gradient (m/m); average of gradients shown on Figure 3-10.
d = mixing zone depth (m); calculated by Equation 12.
DAF = dilution attenuation factor; calculated by Equation 11.
Cw = target soil leachate concentration (DAF * GW-objective) (mg/L)
GW-objectives used are U.S EPA's Maximum Contaminant Levels
GW-objective for 1,1-DCA is from TACO, Appendix B, Table F· Values Used to Calculate the Tier 1 Soil Remediation Objectives for the Soil Component of the Groundwater Ingestion Route
Kd = soil-water partitioning coefficient (Koc * adjusted-foc) (L/kg)
Koc = soil organic carbon/water partition coefficient (L/kg), chemical specific,TACO Appendix C, Table E.
foc = fraction organic carbon, site-specific; see Table I-3
adjusted foc = see Table I-3 for data and calculation of adjusted foc.
θw = water-filled porosity (Lwater / Lsoil), default value = 0 3
θa = air-filled porosity (n - θw) (Lair / Lsoil); default value = 0 13
n = 1- (ρb/ρs) = 0.43
ρb = dry soil bulk density (kg/L), default value = 1.5
ρs = soil particle density (kg/L), default value = 2 65
H' = dimensionless Henry's law constant, chemical specific; TACO Appendix C, Table E

Table I-2
Supporting Data for SSLs - Alluvial Aquifer Hydraulic Conductivity Data
Ellsworth Industrial Park Site
Downers Grove, Illinois

Location ID	Well Screen Location Lithology	Groundwater Classification	Hydraulic Conductivity - Falling Test (cm/s)	Hydraulic Conductivity - Rising Test (cm/s)	Mean Hydraulic Conductivity (cm/s)
Study Area B					
EIP-MW188I	Sand/gravel	Alluvial Aquifer	NA	7.69E-02	7.7E-02
EIP-MW192I	Sand/gravel	Alluvial Aquifer	4.99E-03	1.25E-03	3.12E-03
EIP-MW193I	Silty clay/clayey silt and sand/gravel	Alluvial Aquifer	0.1135[1]	4.74E-03	4.74E-03
Study Area C					
EIP-BD5I	Silt and sand/gravel	Alluvial Aquifer	5.36E-04	9.04E-04	7.20E-04
EIP-MW272I	Sand/gravel	Alluvial Aquifer	9.30E-03	3.04E-02	1.98E-02
EIP-MW273I	Sand/gravel	Alluvial Aquifer	7.37E-02	0.2312	1.52E-01
EIP-MW194I	Sand/gravel and silty clay/clayey silt	Alluvial Aquifer	4.40E-04	1.25E-03	8.46E-04
EIP-MW195I	Sand/gravel and silty clay/clayey silt	Alluvial Aquifer	9.77E-03	2.14E-02	1.56E-02
EIP-MW196I	Sand/gravel	Alluvial Aquifer	1.85E-03	4.56E-03	3.20E-03
EIP-MW197I	Sand/gravel and silty clay/clayey silt	Alluvial Aquifer	9.67E-04	4.73E-04	7.20E-04
EIP-BD7I	Sand/gravel and silty clay/clayey silt	Alluvial Aquifer	8.14E-03	6.90E-03	7.52E-03
EIP-BD6I	Sand/gravel	Alluvial Aquifer	1.13E-03	1.23E-03	1.18E-03
Study Area G					
EIP-MW242I	Sand/gravel and silty clay/clayey silt	Alluvial Aquifer	8.64E-03	3.41E-03	6.02E-03
EIP-LD1I	Silt, sand/gravel	Alluvial Aquifer	3.54E-02	1.81E-02	2.67E-02
Study Area L					
EIP-MW257I	Sand/gravel and silty clay/clayey silt	Alluvial Aquifer	3.22E-02	1.14E-02	2.18E-02
EIP-MW259I	Sand/gravel	Alluvial Aquifer	1.72E-02	4.85E-03	1.10E-02
EIP-MW260I	Sand/gravel	Alluvial Aquifer	8.12E-02	4.36E-02	6.24E-02
Study Area Other (OU1 and OU2)					
EIP-BD4I	Silt and sand/gravel	Alluvial Aquifer	6.94E-05	7.75E-05	7.35E-05
		Geometric Mean of Hydraulic Conductivity - Alluvial Aquifer:			**1.3E-02**

Notes:
Shaded values were not used to calculate the geometric mean of hydraulic conductivity for the SSLs. These values represent screened intervals where only a portion of the screen intersects a clean sand and gravel, or where the screen intersects interbedded fine and coarse grained lithology.
1 Difference between falling and rising head tests exceeded one order of magnitude; only rising head test results considered representative of actual soil conditions
cm/s = Centimeter per second
ID = Identification
OU = Operable Unit
NA = Not applicable; based on professional judgment, the data were not interpretable
Sources:
Bouwer, H., and R.C. Rice. 1976. "A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells." *Water Resources Research*. Volume 12, Pages. 423 through 428.
Bouwer, H. 1989. "The Bouwer and Rice Slug Test - An Update." *Ground Water*. Volume 27, No. 3, Pages. 304 through 309.

ATTACHMENT C
BORING LOGS

LOG OF BORING BD-4I

Ellsworth Industrial Park
Downers Grove

WWTP

Start Date : 5/31/02
Finish Date : 5/31/02
Driller : Boart Longyear
Drilling Method . Rotosonic
Total Depth · 48 ft bgs

WESTON Geologist . B. Crawford

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0		1'			FL	FILL; organic topsoil, dry to moist, roots throughout.	0
2		1			FL	FILL; brown organic mix of sand/gravel/ clay, dry to moist.	0
4							
6		2.5			CL	CLAY; brown, moist, with gravel, medium to high plasticity.	0
					GC	GRAVEL; with some clay, mostly dry.	
8		2.5			GP	GRAVEL; tan, sandy, very little fines, dry.	0
10		2.5			SP	SAND; tan with gravel throughout, dry.	0
12		2.5			SP	As above	0
14							
16		1.25			CL	CLAY; tan gravelly, dry to moist, low to medium plasticity, sandy at bottom.	0
18		1.25			GP	GRAVEL; poorly graded, brown/orange, mixed with sand, dry, loose.	0
20							

Well: BD-4I
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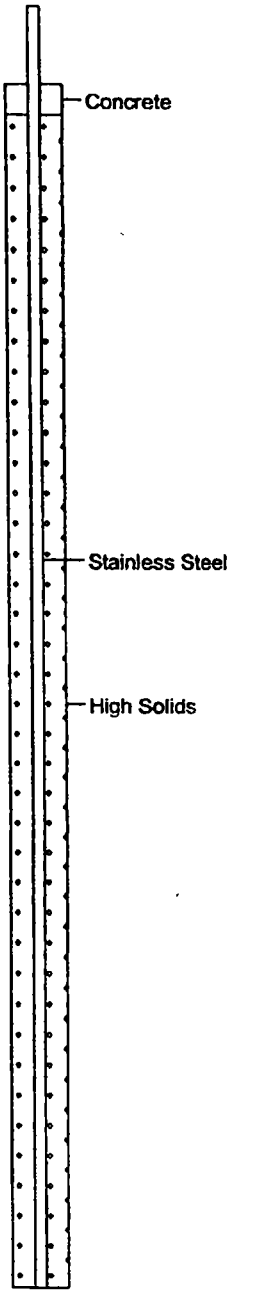

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LOG OF BORING BD-4I

Ellsworth Industrial Park
Downers Grove

WWTP

Start Date : 5/31/02
Finish Date : 5/31/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 48 ft bgs

WESTON Geologist : B. Crawford

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20		1.25			GP	GRAVEL; as above, increasing stiffness towards bottom.	0
22		1.25			GP	As above.	0
24		1.25			GP	As above, very stiff.	0
26		1.25			GP	As above, very stiff.	0
28		1.25			GP	As above, loose.	0
30		1.25			GP	As above, loose.	0
32		1.25			GP		0
34					GC	GRAVEL; tan, mixed with clay, some sand, moist.	0
36					GP	GRAVEL; brown/orange, mixed with sand, some cobbles, dry.	0
38							
40							

Well: BD-4I
Elev.:

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LOG OF BORING BD-4I

Ellsworth Industrial Park
Downers Grove

WWTP

Start Date : 5/31/02
Finish Date : 5/31/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 48 ft bgs

WESTON Geologist : B. Crawford

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
40		2.5			GP	GRAVEL; as above, moist at bottom, with large cobbles.	0
42						As above.	
		2.5				SILT; grey, sandy with some cobbles, moist to wet.	0
44						As above, stiff (till).	
46		2.5					0
						As above.	
48		2.5			ML		0
50		2.5					0
52						As above.	
		2.5					0
54							
56					GW	GRAVEL; Well graded, no fines or sands.	0
58						End of boring @ 57 ft.	
60							

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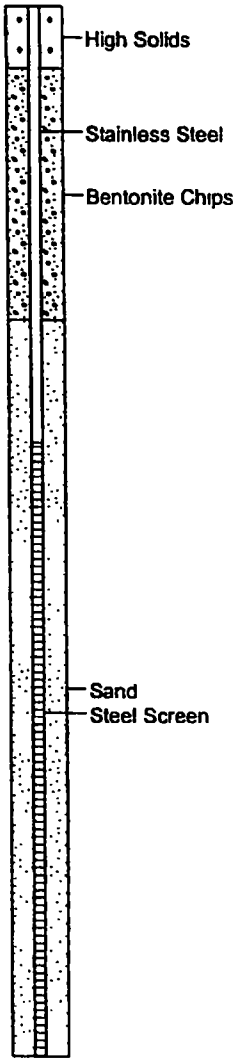

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LOG OF BORING BD-5I

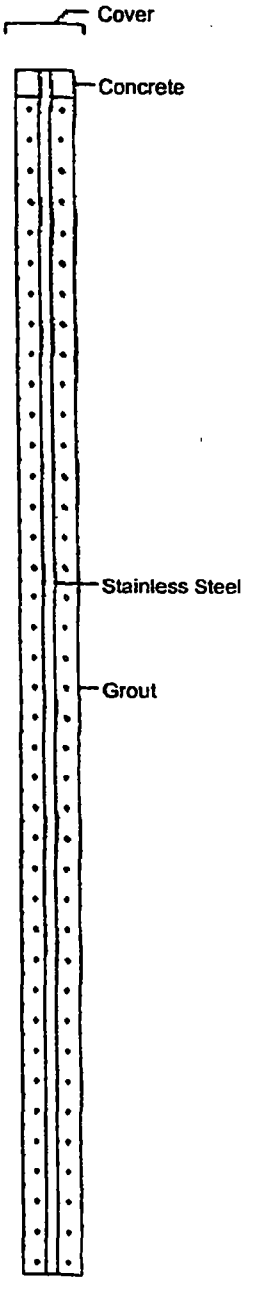
Ellsworth Industrial Park
Downers Grove

Arrow Gear

Start Date	: 5/9/02	Total Depth	: 47.5 ft bgs
Finish Date	: 5/9/02	WESTON Geologist	: B. Crawford
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0		8	5,6,7,6		OL	CLAY; black, organic, rich, silty, roots throughout, dry, low plasticity.	0
2						CLAY; as above.	
		13	5,8,8,8		CL	CLAY; light brown, sandy, dry, stiff, low plasticity.	0
4					OL	CLAY; black, organic, rich, stiff, some roots, dry, low plasticity.	
		15	5,5,6,8		GC	GRAVEL; orange-brown, clayey, with sand, dry.	0
6					OL	CLAY; as above.	
		14	6,6,5,8		GC	GRAVEL; as above.	0
8					OL	CLAY; as above.	
		9	6,6,3,8		SC	SAND; orange-brown, clayey with some gravel, dry to moist.	0
10						SAND; as above, with more gravel.	
		14	7,8,14,11				0
12						As above.	
		10	15,15,15,15				0
14		6	10,15,12,12		GC	GRAVEL; orange-brown, rich, sandy, dry to moist.	0
16					SM	SAND; orange-brown, silty, with trace gravel at top, dry to moist.	
		14	11,9,6,9				0
18						SAND; as above.	
		17	20,11,11,15				0
20							

Well: BD-5I
Elev.:



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LOG OF BORING BD-5I

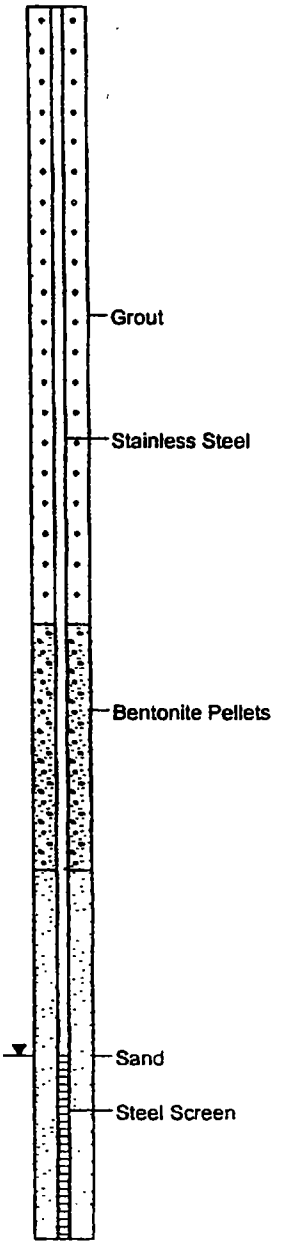
Ellsworth Industrial Park
Downers Grove

Arrow Gear

Start Date	: 5/9/02	Total Depth	: 47 5 ft bgs
Finish Date	: 5/9/02	WESTON Geologist	: B. Crawford
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20					SC	SAND; orange, clayey, gravelly, dry.	
		16	14,20,20,14		CL	CLAY; grey, stiff, dry, low plasticity, trace gravel.	0
22					SC	SAND; as above.	
		13	6,7,9,11		CL	CLAY; as above.	0
24						CLAY; grey, stiff, dry, low plasticity, some large gravel at 8 in.	
		19	17,16,15,30		SC	SAND; alternating grey to orange-brown, clayey, some gravel throughout, dry to moist.	0
26					CL	CLAY; grey with trace gravel at top, some silts near bottom, dry to moist, low to medium. plasticity.	
		22	13,11,8,8				0
28						CLAY; grey with gravel, dry, low to medium plast.	
		6	17,20,23,20				0
30						As above.	
		18	15,10,20,25				0
32					GP	GRAVEL; poorly graded with some sands, moist.	
		18	43,46,42,45				0
					SM	SAND; 1 in of orange-brown, silty, moist.	
34					GW	GRAVEL; angular, potentially going through rock layer.	
		8	55,50/3"				0
36					GP	GRAVEL; poorly graded, with sand, moist.	
		19	38,50,48,40		SM	SAND; orange-brown, grading from silty to sandy from top to bottom, some moisture.	0
38					SC	SAND; clayey, black, organic, moist.	
		13	5,10,15,20		CL	CLAY; grey, stiff, silty, dry to moist, low to medium plasticity.	0
40							

Well: BD-5I
Elev.:



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LOG OF BORING BD-5I

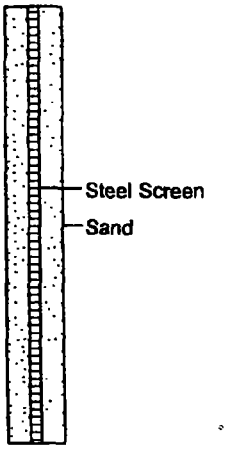
Ellsworth Industrial Park
Downers Grove

Arrow Gear

Start Date	: 5/9/02	Total Depth	: 47 5 ft bgs
Finish Date	: 5/9/02	WESTON Geologist	. B. Crawford
Driller	. Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
40		17	17,30,50,50/5"		CL	CLAY; grey, silty, sandy, moist, low to medium plasticity, trends to gravelly at bottom.	0
42		18	35,40,42,50		ML	SILT; grey, sandy, with gravel throughout, moist.	0
44					SW	SAND; grey, saturated for top 3 in.	
		18	17,30,40,55		GP	GRAVEL; gravel/sand mixture, very little fines, saturated.	0
46		23	38,39,66,50/3"			GRAVEL; as above.	0
48						End of boring @ 47.5 ft.	
50							
52							
54							
56							
58							
60							

Well: BD-5I
Elev.:



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LOG OF BORING BD-6I

Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date : 5/22/02
Finish Date : 5/22/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 50 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0		1.25			FL	FILL; black topsoil with roots throughout, mostly dry.	0
2							
4		1.25			ML	SILT; tan with orange, clayey, mostly dry, some trace gravels and sands.	0
6		2.5			ML	As above.	0
8		2.5			CL	CLAY; tan, silty to sandy, with some gravel thru, dry to moist, low to medium plasticity.	0
10		2.5			CL	CLAY; as above, trending to more sandy at bottom.	0
12		2.5			SC	SAND; tan with orange, clayey, some gravel, dry to moist, grading to less clayey with increasing depth.	0
14							
16		2.5			CL	CLAY; tan grading to grey, trace gravel, dry to moist, low ot med plast.	0
18		2.5			CL	CLAY; grey, with sand/gravel, low plasticity.	0
					GC	GRAVEL; clayey with sand, dry.	
20					SC	SAND; orange/brown, clayey with cobbles, dry, stiff.	

Well: BD-6I
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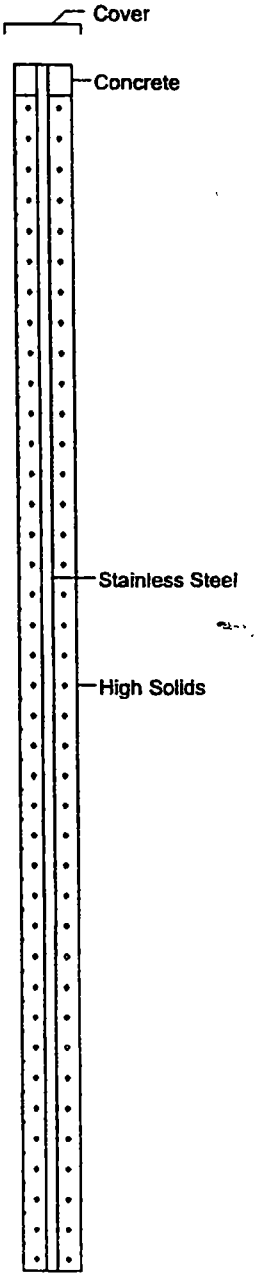

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LOG OF BORING BD-6I

Ellsworth Industrial Park
Downers Grove

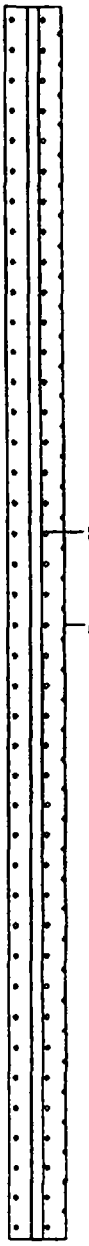
Rexnord

Start Date : 5/22/02
Finish Date : 5/22/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 50 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20		2.5			SC	SAND; as above.	0
22					GP	GRAVEL; poorly graded, mixed with sand and large fractured cobbles, dry. As above.	
24		2.5					0
26		1.5			CL	CLAY; tan, silty, with trace gravel, soft, dry to moist, low to medium plasticity.	0
					GP	GRAVEL; poorly graded, with sand, dry, some cobbles.	
28		1.5			SP	SAND; brown/orange, stiff, with gravel, dry, till.	0
30					GP	GRAVEL; poorly graded, with sand, dry, some cobbles. As above, quite a few cobbles, cobbles appear weathered.	
32		1.5					0
34		1.5			GC	GRAVEL; brown with orange, clayey, with some sand, mostly dry, some cobbles.	0
36		2.5			ML	SILT; grey to tan, clayey, fine, with gravel dry to moist.	0
38		2.5			SC	SAND; grey with some clay, fairly well graded, some gravel, wet.	0
40							

Well: BD-6I
Elev.:



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LOG OF BORING BD-6I

Ellsworth Industrial Park
Downers Grove

Rexnord

Start Date : 5/22/02
Finish Date : 5/22/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 50 ft bgs

WESTON Geologist : B. Schaefer

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
40					SC	SAND; as above.	
		2.5					0
42						CLAY; grey, stiff, with gravel (till), dry to moist, low plasticity.	
					CL	As above, grading to silty clay, small gravel seam midway through sample.	
		2.5					0
44							
46		2				GRAVEL; grey, sand mixture, with some cobbles, saturated.	0
					GP		
48		2				GRAVEL; as above, more clay grading towards bottom.	0
50						End of boring at 50 ft.	

Well: BD-6I
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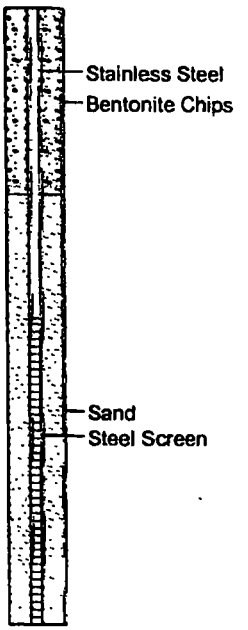

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LOG OF BORING BD-7I

Ellsworth Industrial Park
Downers Grove

Precision

Start Date	: 5/28/02	WESTON Geologist	: B. Crawford
Finish Date	: 5/28/02		
Driller	: Boart Longyear		
Drilling Method	: Rotosonic		
Total Depth	: 48 ft bgs		

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0		1.25'			FL	FILL; black organic clay rich fill material, soil, roots throughout, dry to moist.	0
2		1.25			CL	CLAY; grey grading to orange/brown, sandy, very stiff, dry, low plasticity.	0
4		2.5			SC	SAND; tan, clayey, with gravel throughout, mostly moist, medium plasticity.	0
6		2.5				SAND; as above.	0
8		2.5			CL	CLAY; tan, sandy, with some gravel throughout, mostly moist, medium plasticity	0
10		2.5				CLAY; as above.	
12		2.5			GC	GRAVEL; tan, clayey, with sand, dry to moist.	0
14		1				As above	0
16		1.5			CL	CLAY; tan, sandy, dry to moist, low to medium plasticity.	0
18							
20							

Well: BD-7I
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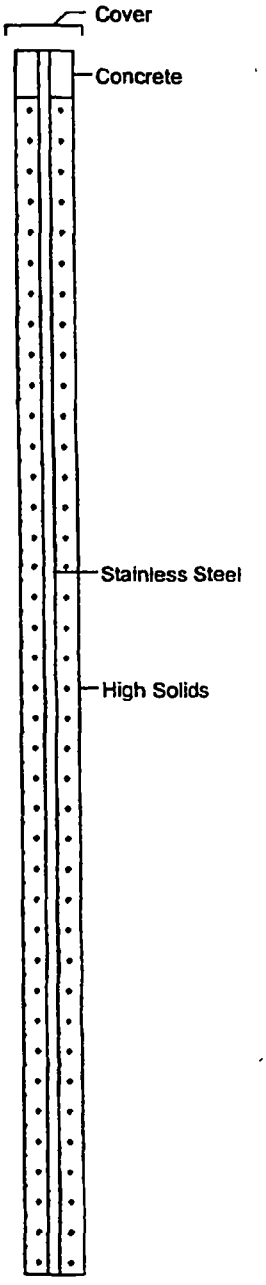

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LOG OF BORING BD-7I

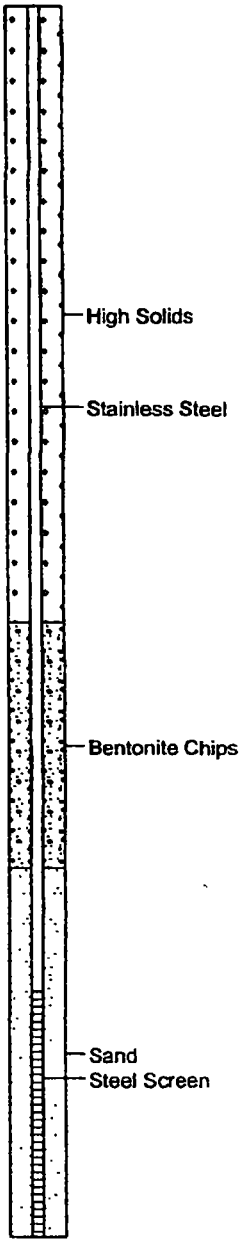
Ellsworth Industrial Park
Downers Grove

Precision

Start Date	: 5/28/02	WESTON Geologist	: B. Crawford
Finish Date	: 5/28/02		
Driller	: Boart Longyear		
Drilling Method	: Rotosonic		
Total Depth	: 48 ft bgs		

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20		2.5			SC	SAND; tan, clayey, with some gravel throughout, mostly dry to moist, large rock fragments at bottom.	0
22		2			SC	SAND; tan, clayey with some gravel throughout, mostly dry to moist, large cobble at bottom.	0
24		1.5			SC	SAND; as above, with less clay and no cobble at bottom, and wet.	0
26		1.5			CL	CLAY; grey silty, with some gravel and sand, stiff, dry to moist, low to medium plasticity.	0
28		2.5			CL	As above	0
30		2.5			CL	As above with approximately 6 in of rock at bottom.	0
32		1			CL	CLAY; grey, gravelly, moist to wet, low to medium plasticity.	0
34		2.5			SP	SAND; tan, gravelly, dry to moist.	0
36							
38							
40							

Well: BD-7I
Elev.:



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LOG OF BORING BD-7I

Ellsworth Industrial Park
Downers Grove

Precision

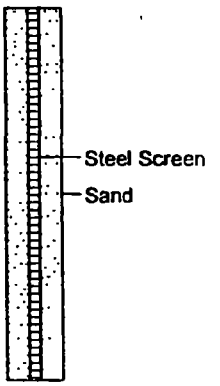
Start Date : 5/28/02
Finish Date : 5/28/02
Driller : Boart Longyear
Drilling Method : Rotosonic
Total Depth : 48 ft bgs

WESTON Geologist : B. Crawford

Depth in feet	Samples	recovery (ft)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
40		2.5			SP	SAND; tan, gravelly, dry to moist.	0
42					SC	SAND; tan, clayey, with some gravel, from dry to moist.	
44		2.5				SILT; grey, clayey, with some gravel, dry to moist, stiff.	0.2
46		1.5			ML	SILT; grey, clayey, with some gravel, moist to wet, soft.	0
48						As above.	

End of boring @ 48 ft

Well: BD-7I
Elev.:



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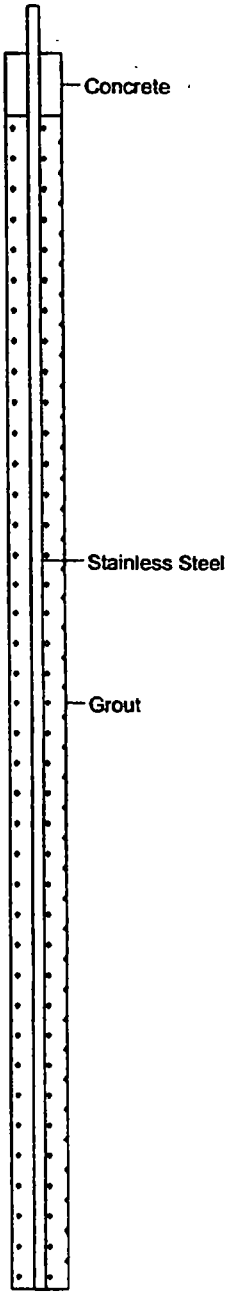
LOG OF BORING LD-1I

Ellsworth Industrial Park
Downers Grove
Northwest of Lindy

Start Date	: 04/30/02	Total Depth	: 64 ft bgs
Finish Date	: 04/30/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
0		6	2,3,3,4		CL	CLAY, silty clay fill, trace sand and gravel, black, low plasticity.	0.0
2		8	6,7,9,9			CLAY, silty, trace gravel, black, some tan, firm, dry, low plasticity.	0.0
4		9	6,7,10,10			CLAY, silt, trace gravel, tan, firm, dry, low plasticity.	0.0
6		12	6,7,10,10			CLAY, silty sand with gravel, tan, firm, dry, low plasticity.	0.0
8		10	4,6,8,9			As above, trace cobbles.	0.0
10		9	5,6,15,5			As above, less cobbles.	0.0
12		14	5,6,14,12		GW	GRAVEL, silty clay and sand, trace cobble, tan, loose to dense, well graded, moist.	0.0
14		9	16,12,10,11			GRAVEL, silt and sand, tan to gray, loose, dry, well graded.	0.0
16		21	50/5"			GRAVEL, gray cobble, possibly limestone, rock fragments, dry.	0.0
18		13	4,17,12,50			GRAVEL, silt and sand, trace white cobble, tan, slightly loose, slightly moist, well graded.	0.0
20							

Well: LD-1I
Elev.:



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LOG OF BORING LD-1I

Ellsworth Industrial Park
Downers Grove
Northwest of Lindy

Start Date	: 04/30/02	Total Depth	: 64 ft bgs
Finish Date	: 04/30/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: LD-1I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
20		9	7,12,12,16		GW	As above.	0.0
22		2	7,20,15,15		GW	GRAVEL, gray-white cobble, possibly limestone, dry.	0.0
24		19	7,20,22,22		CL	CLAY, silty clay, some gravel, hard, slightly moist, well graded.	0.0
26		12	35,48,50/1"			As above.	0.0
28		12	38,50/4"		GM	GRAVEL, silty sand and gravel, tan, dry, slightly loose, well graded. As above, loose.	0.0
30		13	38,50/4"			As above.	0.0
32		12	28,30,15,12		SM	SAND, silty sand, trace gravel, tan to gray, slightly loose, dry, fine to coarse, well graded.	0.0
34		12	49,50/2"		CL	CLAY, silty clay, trace pebbles and thin rock layer between gray and brown clay, gray to brown, very firm, slightly moist, low plasticity.	1.8
36						No recovery.	
38		4	50/3"		GW	GRAVEL, cobbles and fragments, gray, dry.	0.0
40							

Stainless Steel

Grout

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LOG OF BORING LD-1I

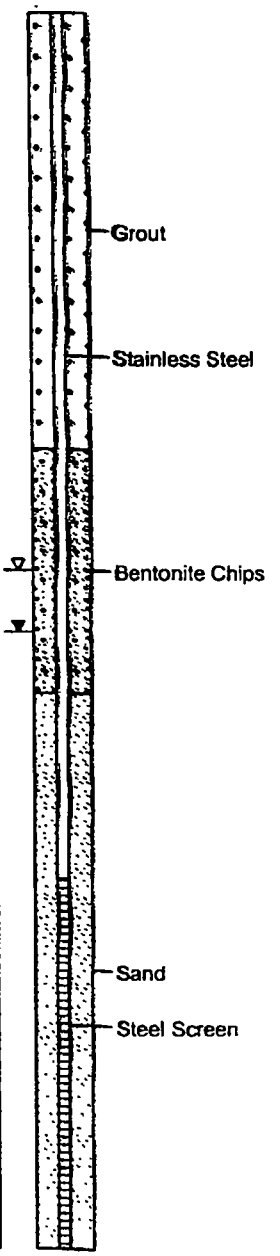
Ellsworth Industrial Park
Downers Grove

Northwest of Lindy

Start Date	: 04/30/02	Total Depth	: 64 ft bgs
Finish Date	: 04/30/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Well: LD-1I
Elev.:

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
40							
		10	47,50/3"		GM	GRAVEL, silts and fragments, gray gravel, tan, dry, very stiff, dense.	0.0
42							
		11	29,32,35,12			GRAVEL, silty sand with gravel, gray gravel/cobble fragments, tan, slightly loose, dry to wet, well graded.	1.2
44							
		12	15,17,24,5		CL	CLAY, sand and silt to silty clay, trace gravel at top 2 in, tan, soft to very firm, wet to very moist, low plasticity.	2.2
46							
		6	29,50/3"			CLAY, silty clay, some gravel, tan, soft, very moist to wet, low plasticity.	0.9
					GW	GRAVEL, gray cobble fragment, possibly limestone, tan, dry.	
48							
						No recovery.	
50							
		13	27,37,50/4"		SM	SAND, silt with gray cobble at top 3 in, silty sand, trace gravel, trace red feldspar, fine to coarse sand, dry, loose, well graded.	0.0
52							
		14	5,5,6,7		ML	SILT, clayey very fine sand with pebbles throughout, very soft, wet, low plasticity.	0.0
54							
		6	50/3"			As above, gray cobbles at bottom.	0.0
56							
						No recovery.	
58							
		9	27,35,33,22		GM	GRAVEL, cobbles with fine sandy silt, gray, saturated, well graded.	0.0
60							



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LOG OF BORING LD-1I

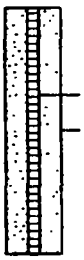
Ellsworth Industrial Park
Downers Grove

Northwest of Lindy

Start Date	: 04/30/02	Total Depth	: 64 ft bgs
Finish Date	: 04/30/02	WESTON Geologist	: B. Schaefer
Driller	: Rock and Soil		
Drilling Method	: 4¼ in ID HSA		
Sampling Method	: Split Spoon		

Depth in feet	Samples	recovery (in)	blow counts (in)	GRAPHIC	USCS	DESCRIPTION	PID (ppm)
60		6	14,29,29,39		GM	As above, slight increase in sandy silt.	0.0
62		14	49,48,16,12			As above.	0.0
64						End of boring @ 64 ft.	
66							
68							
70							
72							
74							
76							
78							
80							

Well: LD-1I
Elev.:



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LOG OF BORING EIP-SS188 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

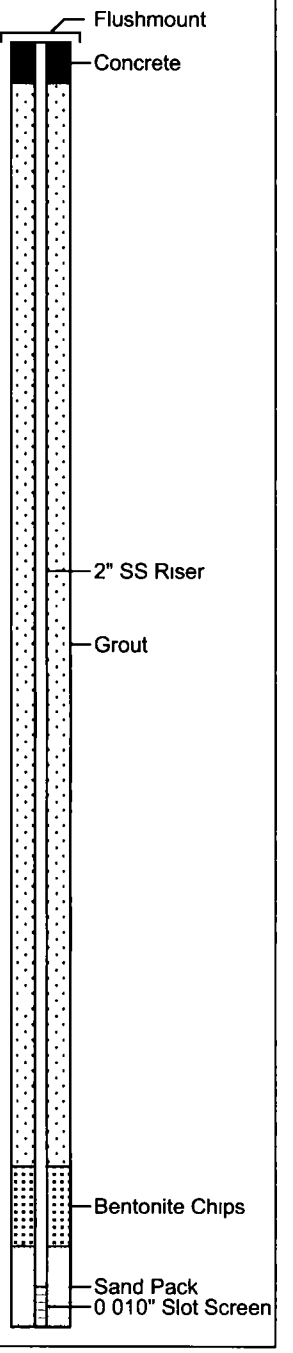
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-2-07	Total Depth	44' bgs
Finish Date	1-2-07	Location	Tricon
Driller	Transhield		5000-5014 Chase
Drilling Method	HSA	WESTON Geologist	T Sundquist
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			AS	ASPHALT surface cover and subbase.		0 1	Soil sample collected at 0859 EIP-SS188-000-1
			OL	ORGANIC SOIL, dark brown/black, dry, crumbly			
4	41/48		SC	CLAYEY SAND, medium brown, dry, crumbly, few pebbles		0 1	Soil sample collected at 0902 EIP-SS188-004-1
						0 2	
8	40/48			SILTY CLAY, light olive/brown, soft, moist, some sand		0 1	Soil sample collected at 0904 EIP-SS188-008-1
						0 2	
12	40/48		CL	as above, few pebbles. as above, pebbles absent SILTY CLAY, light olive/brown/gray, soft to medium, moist, sands, few pebbles		0 1	Soil sample collected at 0909 EIP-SS188-012-1
				as above, medium consistency, moist, sands, few pebbles.		0 3	
16	48/48			as above, medium olive/brown, soft, pebbles absent		0 3	Soil sample collected at 0914 EIP-SS188-016-1
						0 1	
			SC	CLAYEY SAND, medium brown, moist, pebbles. cobbles/pebbles.			Switched to 2' split spoon at 20'
20	48/48					0 0	Soil sample collected at 0946 EIP-SS188-020-1
	12/24			SAND, brown, well graded, coarse grained, dry, pebbles, little clay		0 3	Soil sample collected at 0956 EIP-SS188-022-1
24	18/24					0 8	Soil sample collected at 1008 EIP-SS188-024-1
	20/24		SW	SAND/GRAVEL, brown, coarse grained, dry, pebbles/cobbles, little clay.		0 2	Soil sample collected at 1026 EIP-SS188-026-1
28	24/24			as above, wet		0 3	Soil sample collected at 1038 EIP-SS188-028-1
	9/24					0 7	Soil sample collected at 1048 EIP-SS188-030-1
32	14/24					0 7	

MW-188 I



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LOG OF BORING EIP-SS188 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

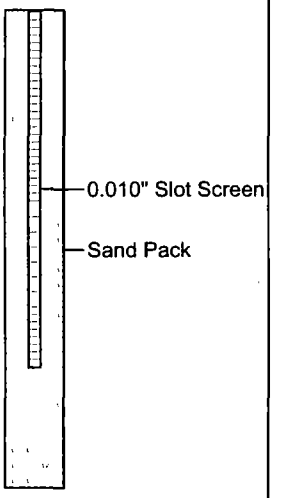
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-2-07	Total Depth	44' bgs
Finish Date	1-2-07	Location	Tricon
Driller	Transhield		5000-5014 Chase
Drilling Method	HSA	WESTON Geologist	T Sundquist
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
32			SP	SAND, brown, coarse grained, wet		0 6	Soil sample collected at 1108 EIP-SS188-032-1
	18/24		GW	GRAVEL/SAND, brown, coarse grained, wet, cobbles/pebbles.			Soil sample collected at 1123 EIP-SS188-034-1
36	16/24			SAND, brown, coarse grained, wet		0 2	Soil sample collected at 1138 EIP-SS188-036-1
	15/24		SP			0 1	Soil sample collected at 1156 EIP-SS188-038-1
	18/24			as above, gray, fine grained. as above, brown, coarse grained.		0 4	Soil sample collected at 1203 EIP-SS188-040-1
40			CL	SILTY CLAY, gray, medium, moist, sands			
	24/24		SP	SAND, gray, fine, moist		0 7	Soil sample collected at 1312 EIP-SS188-042-1
			CL	SANDY CLAY, gray, medium, moist SILTY CLAY, gray, medium to stiff, moist, some sand			
44	14/24					0 0	
				END OF BORING AT 44' Monitoring Well Developed 1/15/07			

MW-188 I



48
52
56
60
64

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LOG OF BORING EIP-SS192 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

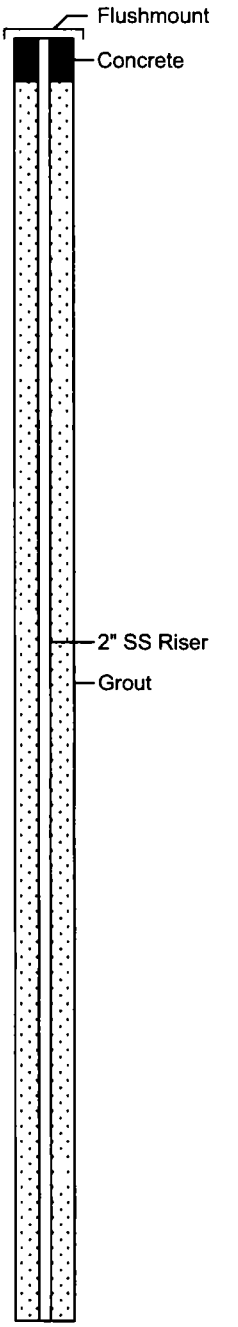
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-4-07	Total Depth	45' bgs
Finish Date	1-5-07	Location	Tricon
Driller	Transhield		5000-5014 Chase
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			AS	ASPHALT surface cover and gravel subbase, light gray, slightly moist.			
				CLAY, brown, slightly stiff, trace sand		10	Soil sample collected at 1440 EIP-SS192-003-1
5	45/60		CL	as above, slightly moist, trace gravel		10	
						12	Soil sample collected at 1444 EIP-SS192-008-1
10	48/60			as above, large gravels		12	Soil sample collected at 1447 EIP-SS192-010-1
				GRAVELLY CLAY, slightly moist			
			SC	CLAYEY SAND, wet, trace gravel.		13	
				SAND, brown, poorly graded, fine grained, wet, trace clay			
15	48/60		SP	as above, clay content increasing		12	
			CL	SANDY CLAY, gray, wet		14	Soil sample and duplicate collected at 1457 EIP-SS192-018-1 and EIP-SS192-018-2
			SC	CLAYEY SAND, gray, wet			
20	60/60			SANDY CLAY, gray, wet		20	
			CL			17	Soil sample collected at 1512 EIP-SS192-023-1
25	39/60					23	Soil sample collected at 1530 EIP-SS192-025-1
				SAND, brown, well graded, medium to coarse grained, dry to slightly moist			
			SW			09	Soil sample collected at 1530 EIP-SS192-028-1
30	39/60					06	

MW-192 I



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LOG OF BORING EIP-SS192 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

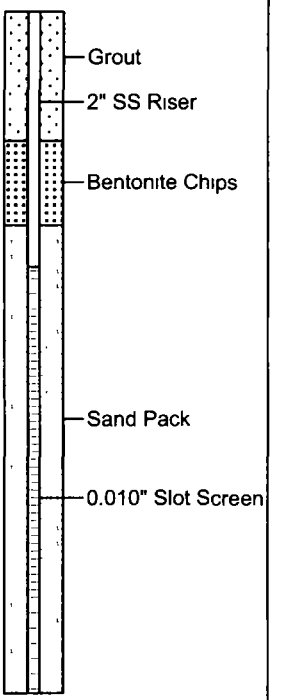
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-4-07	Total Depth	45' bgs
Finish Date	1-5-07	Location	Tricon
Driller	Transhield		5000-5014 Chase
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			SW	SAND, brown, well graded, medium to coarse grained, moist.			
			CL	SANDY CLAY, brown, slightly moist.		06	Soil sample collected at 1548 EIP-SS192-033-1
			GW	GRAVEL, light gray, large, dry, sand content increasing.		09	Soil sample collected at 1613 EIP-SS192-035-1
35	46/60			SAND, brown, well graded, medium grained, saturated		18	Soil sample collected at 1613 EIP-SS192-038-1
			SW				
40	60/60			as above, gray		16	
						14	Soil sample collected at 1637 EIP-SS192-043-1
			GW	GRAVEL, gray, well graded, saturated, trace sand.			
45	57/60			END OF BORING AT 45' Monitoring Well Developed 1/16/07			
50							
55							
60							

MW-192 I



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LOG OF BORING EIP-SS193 I

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

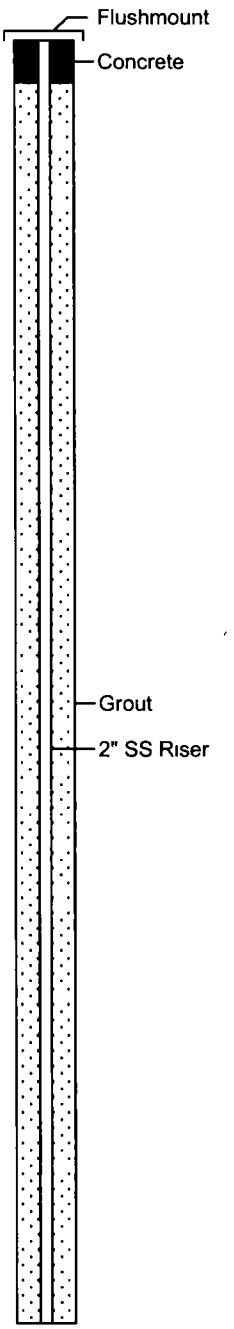
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-5-07	Total Depth	50' bgs
Finish Date	1-6-07	Location	Tricon
Driller	Transhield		5000-5014 Chase
Drilling Method	Geoprobe/HSA	WESTON Geologist	T Sundquist
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0		AS	ASPHALT surface cover and subbase.			Soil sample and duplicate collected at 0755 EIP-SS193-000-1 and EIP-SS193-000-2
		OL	ORGANIC SOIL, black, very soft, moist, crumbly		0 1	
			SANDY CLAY, brown, very soft, moist, crumbly, turning to medium consistency, few pebbles with depth.			
5	52/60		No Recovery from 5' to 5.8'.		0 1	Soil sample collected at 0759 EIP-SS193-005-1
			SANDY CLAY, dark brown, very soft, wet to saturated			
			as above, brown, soft, moist, few pebbles, turning to slightly moist, medium to stiff with depth.		0 2	
		CL				
10	50/60		SANDY CLAY, brown, wet to saturated.		0 2	Soil sample and duplicate collected at 0807 EIP-SS193-010-1 and EIP-SS193-010-2
			as above, medium consistency, slighly moist, few pebbles		0 1	
15	60/60				0 1	
		NR	NO RECOVERY from 15' to 17.8'			
		SC	CLAYEY SAND, red/brown, coarse grained, slightly moist, cobbles/pebbles intermixed.		NR	Soil sample collected at 0818 EIP-SS193-018-1
20	26/60	SW	SAND/GRAVEL, coarse grained, dry, little clay, cobbles/pebbles		0 3	
		NR	NO RECOVERY from 20' to 22'.			
			SAND, red/brown, coarse grained, dry, cobbles/pebbles intermixed, little clay.		NR	Soil sample collected at 0834 EIP-SS193-023-1
		SW				
25	36/60		as above wet to moist		0 3	
			SILTY CLAY, gray, medium to stiff, dry, few pebbles		0 3	Soil sample collected at 0852 EIP-SS193-028-1
		CL				
30	60/60				0 7	

MW-193 I



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LOG OF BORING EIP-SS193 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

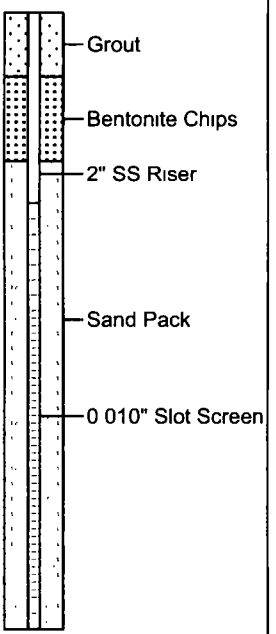
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-5-07	Total Depth	50' bgs
Finish Date	1-6-07	Location	Tricon
Driller	Transhield		5000-5014 Chase
Drilling Method	Geoprobe/HSA	WESTON Geologist	T Sundquist
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30		CL	SILTY CLAY, gray, medium to stiff, slightly moist, few pebbles		0 3	Soil sample collected at 0919 EIP-SS193-033-1
35	60/60		No Recovery from 35' to 36.1'.		0 7	Soil sample collected at 0951 EIP-SS193-035-1
			as above, wet, cobbles.			
			as above, moist		0 6	
		SW	SAND, brown, coarse grained, dry, crumbly, pebbles. SAND/GRAVEL, gray, coarse grained, moist, cobbles at 39.4'.			
40	47/60		No Recovery from 40' to 41.5'.		0 5	Soil sample collected at 1015 EIP-SS193-040-1
			SAND, gray, coarse grained, moist, cobbles/pebbles 4" silty clay seam, gray, medium consistency, moist 2" gray cobbles.		0 8	
		SP	SAND, gray, fine grained, moist			
		SW	SAND, gray, coarse grained, pebbles.			
45	42/60	SP	SAND, light brown, medium grained, moist. as above, gray/brown.		0 5	
		CL	SILTY CLAY, gray, dry, slighlty crumbly, few pebbles, trace cobbles.		0 3	Soil sample collected at 1047 EIP-SS193-048-1
50	60/60	ML	SILT/SAND, gray/brown, dry, crumbly, some clay.		0 5	
			END OF BORING AT 50' Monitoring Well Developed 1/17/07			
55						
60						

MW-193 I



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Restoring Resource Efficiency

U S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-2-07	Total Depth	45' bgs
Finish Date	1-3-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			TS	TOPSOIL, black, slightly moist.			Soil sample collected at 0845 EIP-SS194-000-1
			GW	GRAVEL, light gray, well graded, dry			
				CLAY, black, stiff, dry		1 1	
				as above, brown, trace roots			
				as above, dark brown, slightly moist, cohesive, trace sand/gravel			
5	45/60		CL	SANDY CLAY, brown to dark brown, slightly moist, cohesive, sand content increases at intervals throughout.		0 0	
						0 2	Soil sample collected at 0855 EIP-SS194-008-1
10	57/60			as above, brown, large gravel piece embedded		0 3	
			SC	CLAYEY SAND, light brown, moist.		0 2	Soil sample collected at 0905 EIP-SS194-013-1
15	34/60		CL	SANDY CLAY, brown, slightly moist, trace gravel		0 7	Soil sample collected at 0910 EIP-SS194-015-1
			SC	CLAYEY SAND with gravel, brown, wet		2 8	
			SP	SAND, gray, poorly graded, fine grained, wet, gradually transitioning to gravelly clay			
20	54/60		CL	GRAVELLY CLAY, gray, moist, trace round pebbles		0 0	Soil sample collected at 0920 EIP-SS194-020-1
						1 2	
25	58/60		SW	SAND, brown to tan, well graded, moist to wet as above, dry, some clayey seams		0 7	Soil sample collected at 1003 EIP-SS194-025-1
			SP	SAND, brown, poorly graded, medium grained, moist		0 0	
			CL	CLAY, gray, slightly moist			
			GW	GRAVEL, light gray, well graded, angular, moist to slightly wet, trace sand.			
30	57/60					0 0	

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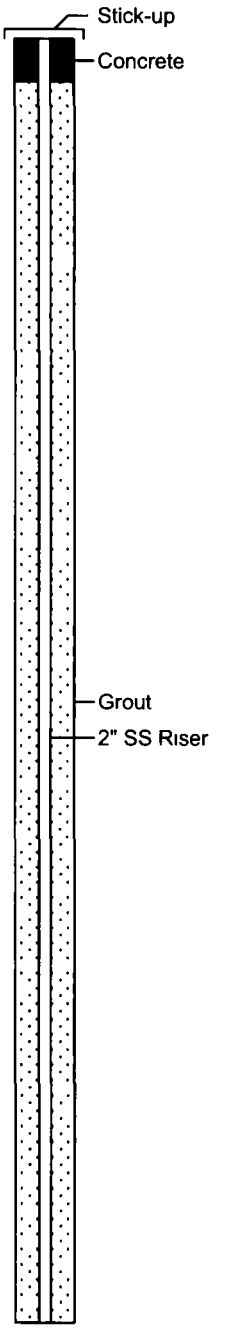

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WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

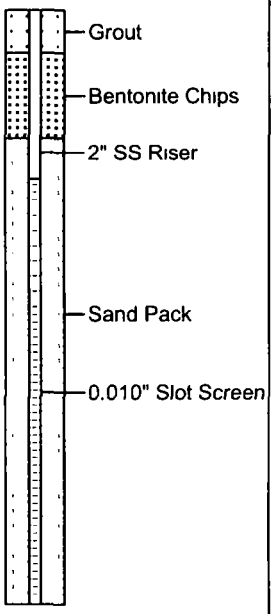
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-2-07	Total Depth	45' bgs
Finish Date	1-3-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			GW	GRAVEL, light gray, well graded, angular, dry, trace sand, transitioning to brown, slightly moist, trace clay with depth 3" poorly graded gravel seam, brown, saturated		0.0	Soil sample collected at 1027 EIP-SS194-033-1
35	56/60		SP	SAND, light brown, poorly graded, medium grained.		0.0	Soil sample collected at 1054 EIP-SS194-035-1
			SW	SAND with gravel, well graded, wet		0.0	
			CL	SILTY CLAY, gray, slightly moist.			
40			SP	SAND, gray, poorly graded, wet, some coarse grains. as above, saturated		0.0	Soil sample collected at 1135 EIP-SS194-040-1
			GP	GRAVEL, light gray, poorly graded, saturated.			
			CL	CLAY, gray, slightly moist, slightly plastic, trace round pebbles, moisture and plasticity decreasing with depth.		0.0	
45				END OF BORING AT 45' Monitoring Well Developed 1/17/07			
50							
55							
60							

MW-194 I



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LOG OF BORING EIP-SS195 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-2-07	Total Depth	45' bgs
Finish Date	1-3-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			TS	TOPSOIL, black, slightly moist			
				CLAY, black, dry, trace roots.		0 0	Soil sample and duplicate collected at 1307 EIP-SS195-003-1 and EIP-SS195-003-2
				CLAY, brown, dry to slightly moist, trace sand, trace angular gravel.			
				CLAYEY SAND wtih gravel, brown, slightly moist			
5	46/60			as above, brown to light brown, dry		0 0	
						0 0	Soil sample collected at 1311 EIP-SS195-008-1
10	34/60		CL			0 0	Soil sample collected at 1315 EIP-SS195-010-1
						0 3	
15	32/60			GRAVELLY CLAY, dark brown/reddish		0 2	
				as above, very moist, gravel content increasing			
				CLAY, gray, slightly moist.		0 0	Soil sample collected at 1324 EIP-SS195-018-1
			GW	CLAYEY GRAVEL, brown, well graded, moist			
20	51/60					0 0	
			SW	SAND, brown, well graded, dry.		0 0	Soil sample collected at 1332 EIP-SS195-023-1
25	40/60					0 0	
			CL	SANDY CLAY, gray/brown, very moist.			
			GW	CLAYEY GRAVEL, light brown to gray, dry.		0 0	Soil sample collected at 1348 EIP-SS195-028-1
				as above, moisture and sand content increasing.			
			CL	CLAY, gray.			
30	58/60					0 4	

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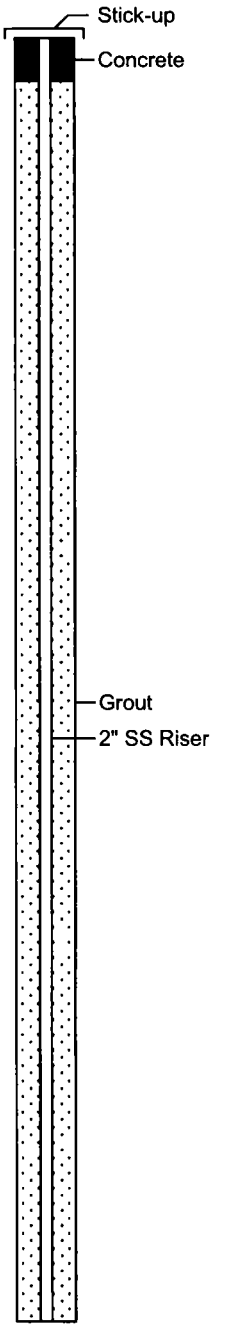

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LOG OF BORING EIP-SS195 I

Restoring Resource Efficiency

U.S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-2-07	Total Depth	45' bgs
Finish Date	1-3-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			CL	CLAY, gray, very moist, trace gravel.			
				as above, slightly moist.		0 3	Soil sample collected at 1410 EIP-SS195-033-1
35	59/60		SC	CLAYEY SAND, gray, wet.		0 3	
			SW	SAND, gray, well graded, saturated, trace clay			
			GP	GRAVEL, poorly graded, round, saturated.		0 5	Soil sample collected at 1440 EIP-SS195-038-1
			SW	SAND, gray, well graded, saturated			
40	47/60					2 6	Soil sample collected at 1530 EIP-SS195-040-1
			SP	SAND, gray, poorly graded, fine grained, very moist, trace silt			
				CLAY, gray, moist.		1 0	Soil sample collected at 1530 EIP-SS195-043-1
			CL	large gravel piece			
45	40/60			END OF BORING AT 45' Monitoring Well Developed 1/17/07		0 5	
50							
55							
60							

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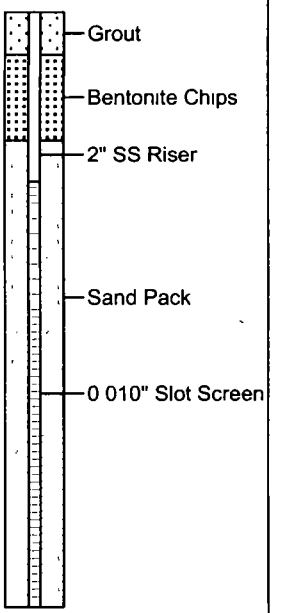

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LOG OF BORING EIP-SS196 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-4-07	Total Depth	50' bgs
Finish Date	1-6-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			TS	TOPSOIL, black, slightly moist			
			CL	CLAY, dark brown/black, slightly moist, trace sand. as above, brown, sand and gravel content increasing with depth		0 0	Soil sample collected at 0811 EIP-SS196-003-1
5	46 5/60			SANDY CLAY, brown, slightly moist		0 0	
			GW	GRAVEL, light gray, well graded, dry.			
				SANDY CLAY, brown, slightly moist		0 2	Soil sample collected at 0815 EIP-SS196-008-1
10	41/60			as above, brown to light brown, trace gravel.		0 3	
						0 0	Soil sample collected at 0825 EIP-SS196-013-1
15	38/60		CL	GRAVELLY CLAY, reddish brown, wet, gravel is angular, trace sand		0 0	
						0 0	Soil sample collected at 0832 EIP-SS196-018-1
20	44/60			as above, wet		0 0	Soil sample collected at 0846 EIP-SS196-020-1
			SP	SAND, brown, poorly graded, fine grained, wet.		0 5	
				as above, clay content increasing			
	60/60		CL	SILTY CLAY, gray, moist		0 0	
25				NO RECOVERY from 25' to 30'			No sample collected from 25' to 30'
			NR			NR	
30	0/60					NR	

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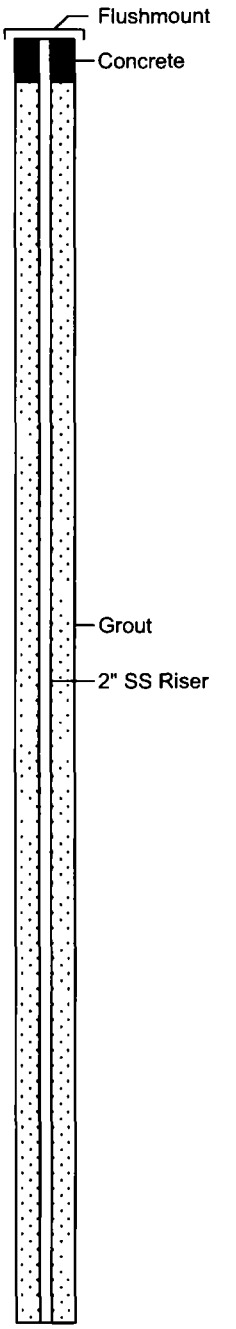

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Restoring Resource Efficiency

U.S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-4-07	Total Depth	50' bgs
Finish Date	1-6-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			SP	SAND, tan, poorly graded, fine to medium grained, moist		0 0	Soil sample collected at 0853 EIP-SS196-033-1
				as above, medium to coarse grained			
			MH	SANDY SILT, brown, slightly moist.			
35	59/60					0.1	Soil sample collected at 0912 EIP-SS196-035-1
			CL	SILTY CLAY, gray, slightly moist, plastic, trace round gravel		0 7	Soil sample collected at 0912 EIP-SS196-038-1
40	57/60					0 5	Soil sample collected at 0935 EIP-SS196-040-1
						0 0	
45	37/60		GW	SANDY GRAVEL, gray, well graded, saturated		0 0	
						0 0	Soil sample collected at 1005 EIP-SS196-048-1
50	41/60					0 0	

END OF BORING AT 50'
Monitoring Well Developed 1/16/07

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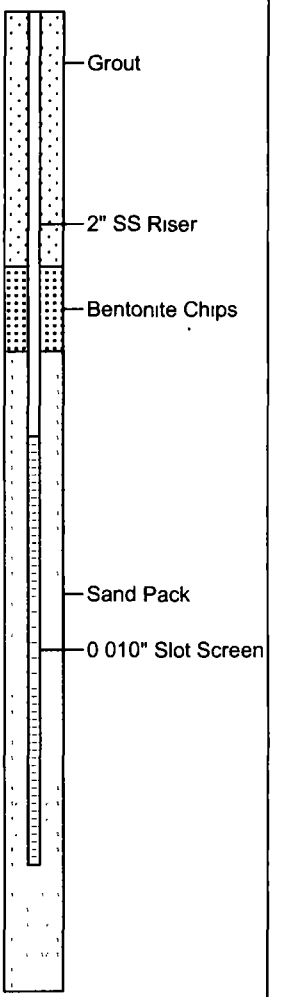

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WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-4-07	Total Depth	34' bgs
Finish Date	1-4-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			AS	ASPHALT surface cover and subbase.			Soil sample collected at 1105 EIP-SS197A-000-1
				SILTY CLAY, gray-brown, slightly moist, crumbly, trace sand, trace gravel		1 3	
				as above, dark gray, medium consistency			
				as above, transitioning to light gray with dark staining			
				as above, transitioning to gray with brown staining, sand content increasing with depth			
5	60/60			as above, medium plasticity, moisture content increasing with depth		1 0	
						0 8	Soil sample collected at 1109 EIP-SS197A-008-1
10	60/60			as above, high plasticity, silt content decreasing.		0 8	Soil sample collected at 1116 EIP-SS197A-010-1
			CL			1 4	
15	59/60			CLAY, gray, occasional brown spots, soft, moist, high plasticity		1 0	
				SANDY CLAY, gray-brown, little gravel/cobbles		1 7	
				as above, brown, red staining, coarse grained, some silt, some gravel/cobbles.			Soil sample collected at 1128 EIP-SS197A-018-1
20	50/60			SANDY CLAY with gravel, very wet		1 7	
				as above, sand content increasing		1 5	Soil sample collected at 1145 EIP-SS197A-023-1
				3" large cobbles			
			SP	SAND, brown, poorly graded, fine to medium grained, soft, very wet.		1 7	
25	51/60			SAND, brown, well graded, saturated, little gravel, trace clay, clay content increasing with increasing depth.			
			SW			0 1	Soil sample and duplicate collected at 1200 EIP-SS197A-028-1 and EIP-SS197A-028-2
30	60/60					0 5	

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LOG OF BORING EIP-SS197A

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-4-07	Total Depth	34' bgs
Finish Date	1-4-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			SW	SAND, brown, well graded, saturated, some gravel, little clay.			Soil sample collected at 1200 EIP-SS197A-030-1
			CL	CLAY pocket.		11	
	48/48		GW	SANDY GRAVEL, saturated. large cobble.		50	Soil sample collected at 1227 EIP-SS197A-033-1
				END OF BORING AT 34'			
35							
40							
45							
50							
55							
60							

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LOG OF BORING EIP-SS197B I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

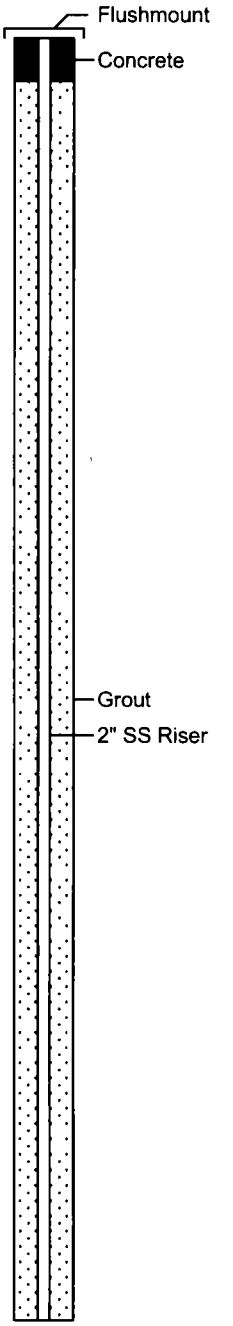
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-5-07	Total Depth	45' bgs
Finish Date	1-5-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0				BLIND DRILL from 0' to 35'			No sample collected between 0'-35'
5							
10							
15							
20							
25							
30							

MW-197 I



LOG OF BORING EIP-SS197B I

Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

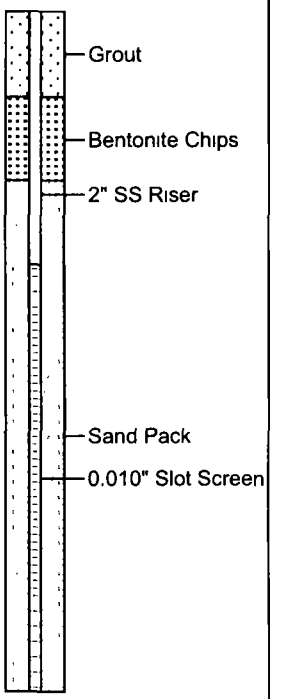
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-5-07	Total Depth	45' bgs
Finish Date	1-5-07	Location	Precision Brand
Driller	Transhield		2250 Curtiss
Drilling Method	Geoprobe/HSA	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30				BLIND DRILL from 0' to 35'.			
35				SAND, brown, poorly graded, angular, moist to wet. 2" well graded sand seam, coarse grained.		10	Soil sample and duplicate collected at 1313 EIP-SS197B-038-1 and EIP-SS197B-038-2
			SP	2" well graded sand seam, coarse grained.			
40	29/60			as above, coarse grained, saturated.		23	
			SC	CLAYEY SAND, gray, saturated.		08	Soil sample collected at 1354 EIP-SS97B-043-1
			SP	SAND, gray, poorly graded, saturated.			
45	60/60		CL	SILTY CLAY, gray, moist, trace round pebbles		11	
				END OF BORING AT 45' Monitoring Well Developed 1/17/07			
50							
55							
60							

MW-197 I



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LOG OF BORING EIP-SS242 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

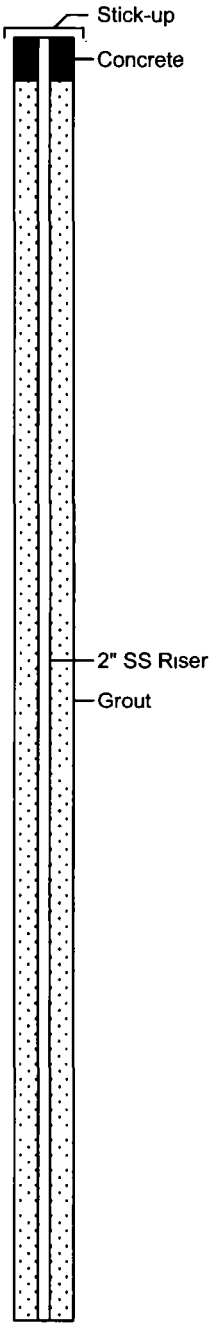
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-18-07	Total Depth	55' bgs
Finish Date	1-18-07	Location	Fusibond
Driller	Transhield		2615 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	USCS	DESCRIPTION	PID (ppm)	REMARKS
0		TS	TOPSOIL, black, slightly moist.		
			SANDY CLAY, dark brown, slightly moist, trace gravel	0.0	Soil sample collected at 0804 EIP-SS242-003-1
5	54/60	CL		0.0	
			CLAYEY GRAVEL, brown, well graded, stiff, slightly moist	0.0	Soil sample collected at 0809 EIP-SS242-008-1
10	51/60	GC		0.2	Soil sample collected at 0813 EIP-SS242-010-1 Duplicate confirmation sample collected
			GRAVEL, tan, well graded, sub-angular, dry, trace sand	0.0	
15	48/60			0.0	
				0.0	Soil sample collected at 0826 EIP-SS242-018-1
20	56/60	GW		0.0	Soil sample collected at 0833 EIP-SS242-020-1
			as above, reddish brown, dry to slightly moist, sand absent	0.2	
25	60/60			0.0	
				0.0	Soil sample collected at 0843 EIP-SS242-028-1
			as above, slightly moist to moist.		
30	45/60		3" silty clay seam, slightly moist, plastic.	0.0	

MW-242 I



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LOG OF BORING EIP-SS242 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

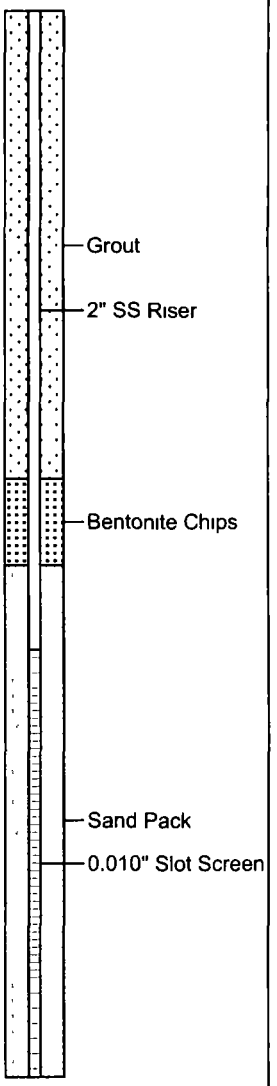
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-18-07	Total Depth	55' bgs
Finish Date	1-18-07	Location	Fusibond
Driller	Transhield		2615 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30				CLAY, gray, medium consistency, slightly moist, plastic, trace round pebbles.		0.0	Soil sample collected at 0906 EIP-SS242-033-1
35	60/60		CL	GRAVELLY CLAY, brown, moist CLAY, gray, medium consistency, slightly moist, plastic, trace round pebbles.		0.0	Soil sample collected at 0946 EIP-SS242-035-1
						0.0	
40	58/60					0.0	Soil sample collected at 1020 EIP-SS242-040-1
			SW	SAND, brown, well graded, dry.		0.0	
			CL	CLAY, gray, medium consistency, slightly moist, plastic, trace round pebbles			
45	59/60					0.0	No sample collected from 45' to 50'
			NR	NO RECOVERY from 45' to 50'		NR	
50	0/60		SP	SAND, tan, poorly graded, medium grained, very moist to moist.		NR	Geotech collected from 50' to 55'
			CL	SILTY CLAY, gray, moist, trace very fine grained sand			Soil sample collected at 1202 EIP-SS242-053-1
			SP	SAND, gray, poorly graded, very fine grained, wet			
55	58/60			END OF BORING AT 55' Monitoring Well Developed 1/25/07			
60							

MW-242 I



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LOG OF BORING EIP-SS257 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

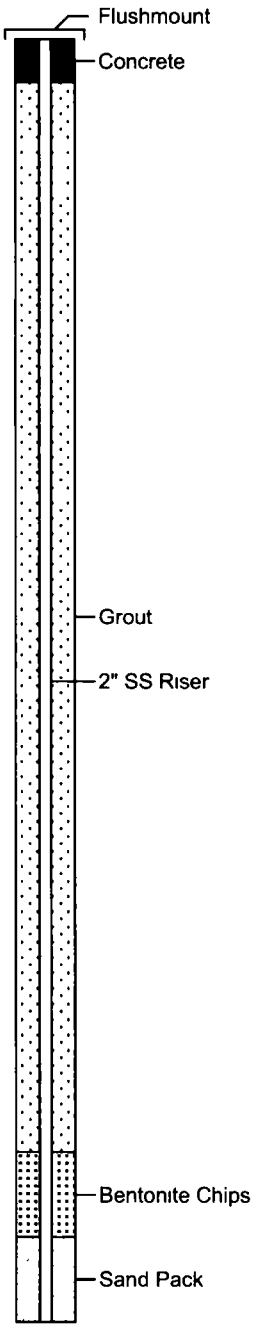
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-24-07	Total Depth	45' bgs
Finish Date	1-25-07	Location	Global Gear
Driller	Transhield		2500 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	T Sundquist
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			AS	ASPHALT surface cover and subbase			Soil sample collected at 1134 EIP-SS257-000-1
			SC	CLAYEY SAND, brown/red, coarse grained, soft, slightly moist, crumbly, gravel		0 2	
			CL	SILTY CLAY, medium brown, medium consistency, slightly moist			
5	60/60			CLAYEY SAND/GRAVEL, red/brown, coarse grained, soft, slightly moist, crumbly, cobbles No Recovery from 5' to 6 2'		0 0	Soil sample collected at 1139 EIP-SS257-005-1
						0 0	
10	46/60			No Recovery from 10' to 11.4'		0 0	Soil sample collected at 1143 EIP-SS257-010-1 Geotech collected from 10' to 15' at 1309
						0 0	
15	44/60		SC	No Recovery from 15' to 17'.		0 0	Soil sample collected at 1150 EIP-SS257-015-1
						0 0	
20	36/60			No Recovery from 20' to 21.4'		0 0	Soil sample collected at 1202 EIP-SS257-020-1
						0 0	
25	44/60			No Recovery from 25' to 27'		0 0	Soil sample collected at 1302 EIP-SS257-025-1
				CLAYEY SAND/GRAVEL, light brown, coarse grained, dry, crumbly, cobbles		0 0	
30	36/60			as above, moist		0 0	

MW-257 I



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LOG OF BORING EIP-SS257 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

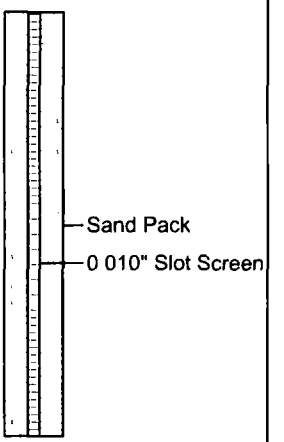
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-24-07	Total Depth	45' bgs
Finish Date	1-25-07	Location	Global Gear
Driller	Transhield		2500 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	T Sundquist
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			NR	NO RECOVERY from 30' to 31 6'			Soil sample collected at 1313 EIP-SS257-030-1
			GW	SAND/GRAVEL, light brown, coarse grained, wet		0 2	
	41/60		CL	SANDY CLAY, gray, very fine grained, very soft, moist No Recovery from 35' to 35.8'		0 2	
35				as above, trace pebbles		0 1	Soil sample collected at 1334 EIP-SS257-038-1
40	50/60					0 7	
				as above, medium consistency.		1 2	Soil sample collected at 1403 EIP-SS257-043-1
45	60/60			CLAY, gray, medium consistency, slightly moist, few pebbles		1 6	
				END OF BORING AT 45' Monitoring Well Developed 1/30/07			
50							
55							
60							

MW-257 I



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LOG OF BORING EIP-SS259 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

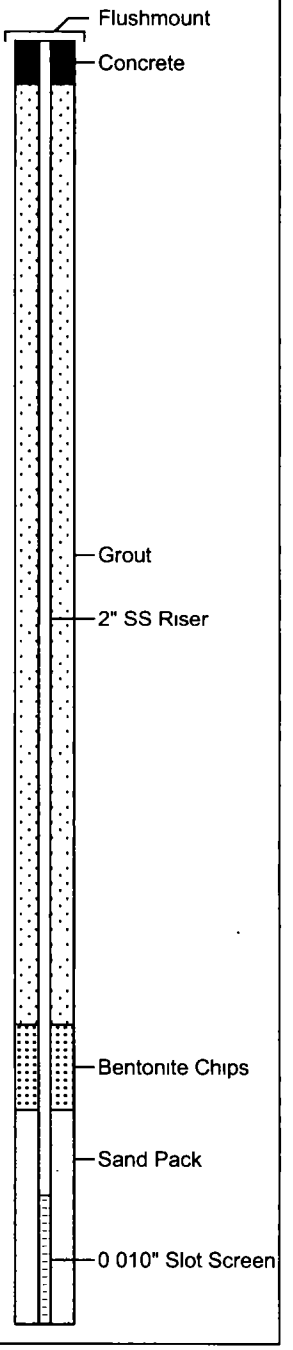
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-25-07	Total Depth	45' bgs
Finish Date	1-25-07	Location	Global Gear
Driller	Transhield		2500 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	M Pihl
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			AS	ASPHALT surface cover and subbase			
			SP	SAND and GRAVEL, tan, dry, loose		0 1	Soil sample collected at 1006 EIP-SS259-003-1
5	43/60		CL	SILTY CLAY, dark gray and black, soft, slightly moist, rubber-like odor		0 4	Soil sample and duplicate collected at 1008 EIP-SS259-005-1 and EIP-SS259-010-2
						0 0	
10	49/60		SC	CLAYEY SAND, dark brown, slightly moist		0 0	Soil sample collected at 1014 EIP-SS259-010-1
			SM	SILTY SAND, tan and brown, fine to medium grained, moist		0 0	
15	44/60		SW	SAND and GRAVEL, brown and gray, loose, slightly moist.		0 0	Soil sample collected at 1020 EIP-SS259-015-1
				SAND and GRAVEL, tan, fine to coarse grained, loose, dry, some rust staining		0 0	
20	48/60					0 0	Soil sample and duplicate collected at 1028 EIP-SS259-020-1 and EIP-SS259-020-2
			SM	SILTY SAND, brown, fine grained, saturated		0 0	
			SW	SAND, brown, fine to coarse grained, loose, moist			
25	50/60		CL	SILTY CLAY, brown and gray, soft, slightly moist		0 0	Soil sample collected at 1044 EIP-SS259-025-1
			SW	SAND and GRAVEL, brown, loose, moist to wet, large cobbles (1"-1 5")		0 0	
30	48/60					0 0	

MW-259 I



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LOG OF BORING EIP-SS259 I

Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

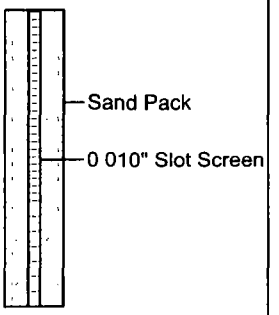
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-25-07	Total Depth	45' bgs
Finish Date	1-25-07	Location	Global Gear
Driller	Transhield		2500 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	M. Pihl
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			SM	SILTY SAND, brown, poorly graded, fine to medium grained, saturated.		0 0	Soil sample collected at 1117 EIP-SS259-030-1
			SW	SAND, brown, well graded, fine to coarse grained, very loose, saturated, abundant gravel. as above, stones (1"-1 5")		0 0	
35	52/60		GW	GRAVEL, brown, very loose, saturated, some coarse grained sand, large cobbles (>1 5")		0 3	Soil sample collected at 1138 EIP-SS259-038-1
40	42/60		NR	NO RECOVERY from 40' to 45'.		0 7	No sample collected from 40' to 45'
45	0/60			END OF BORING AT 45' Monitoring Well Developed 1/30/07			
50							
55							
60							

MW-259 I



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LOG OF BORING EIP-SS260 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

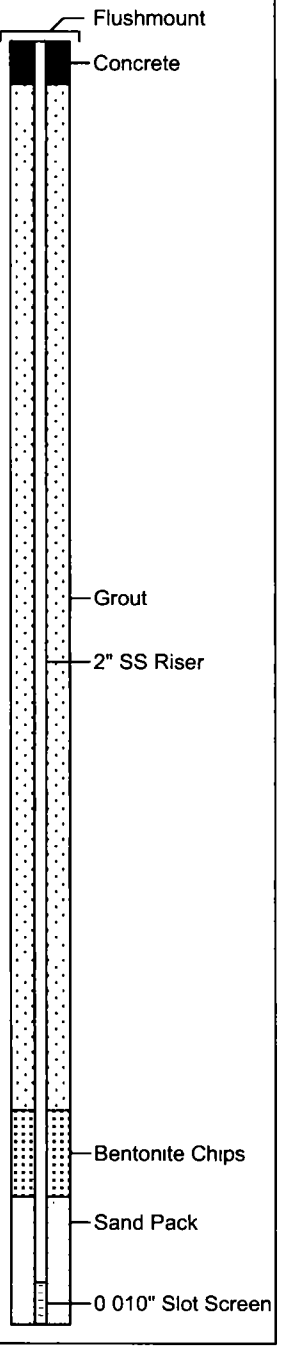
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-25-07	Total Depth	45' bgs
Finish Date	1-25-07	Location	Global Gear
Driller	Transhield		2500 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	M Doheny-Skubic
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			AS	ASPHALT surface cover and subbase			
				SILTY CLAY, black, dry, some medium to coarse grained gravel.		1 0	Soil sample collected at 1324 EIP-SS260-000-1
5	60/60			SANDY CLAY, brown, dry, few fine to coarse grained gravel		0 2	Soil sample and duplicate collected at 1335 EIP-SS260-005-1
						0 2	
			CL				
10	60/60			1" sand and gravel lens		0 0	Soil sample collected at 1337 EIP-SS260-010-1
				SANDY CLAY, tan, rust staining, fine to coarse grained, dry, some medium grained gravel.			
				3" gravel lens.		0 5	
				2" gravel lens			
15	53/60			SILTY CLAY, brown, rust staining, hard, dry, trace gravel		0 3	Soil sample and duplicate collected at 1340 EIP-SS260-015-1 and EIP-SS260-015-2
				SAND, tan, fine to coarse grained, dry, little gravel.		0 4	
20	50/60					0 1	Soil sample and duplicate collected at 1357 EIP-SS260-020-1
						0 3	
			SP				
25	42/60			as above, some gravel		0 1	
						0 0	Soil sample collected at 1404 EIP-SS260-028-1
30	54/60					0 4	

MW-260 I



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LOG OF BORING EIP-SS260 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

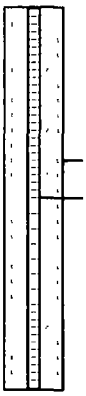
Start Date	1-25-07	Total Depth	45' bgs
Finish Date	1-25-07	Location	Global Gear
Driller	Transhield		2500 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	M Doheny-Skubic
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			NR	NO RECOVERY from 30' to 32 5'		NA	Soil sample collected at 1413 EIP-SS260-033-1
35	30/60		GW	SANDY GRAVEL, tan, well graded, subrounded to rounded, loose, wet. as above, fine to coarse grained.		0 4	Soil sample collected at 1438 EIP-SS260-035-1 PID battery ran out, no field screening from 35' to EOB
						NA	Soil sample collected at 1438 EIP-SS260-038-1
40	33/60					NA	Soil sample collected at 1508 EIP-SS260-040-1
			CL	SILTY CLAY, gray, soft, slightly moist, trace rounded pebbles.		NA	Soil sample collected at 1508 EIP-SS260-043-1
45	30/60					NA	

END OF BORING AT 45'
Monitoring Well Developed 1/30/07

MW-260 I



50
55
60

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LOG OF BORING EIP-SS272 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

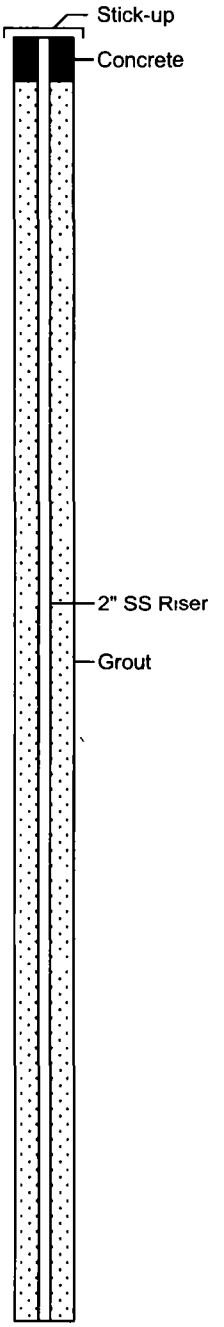
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-30-07	Total Depth	51' bgs
Finish Date	1-31-07	Location	Arrow Gear
Driller	Transhield		2301 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			TS	TOPSOIL, brown			
			CL	SILTY CLAY, dark brown, soft, dry, trace angular gravel.		0 0	Soil sample and duplicate collected at 0805 EIP-SS272-003-1 and EIP-SS272-003-2
			OL	ORGANIC SOIL, black, soft, dry, silty			
5	52/60			SILTY CLAY, black, soft, dry		0 0	
				as above, gradually transitioning to brown.			
			CL	SANDY CLAY, brown, slightly moist, trace small gravel		0 2	Soil sample collected at 0810 EIP-SS27-008-1
				as above, sand (medium grained) content is increasing.		0 5	Shelby tube collected from 9' to 11 5'
10	57/60						
				CLAYEY SAND, brown, medium grained, moist, trace small gravel, clay content decreasing with depth		0 0	Soil sample collected at 0819 EIP-SS272-013-1
			SC				
15	42/60			as above, wet.		0 4	
			SP	SAND, brown, poorly graded, medium grained, wet		0 1	Soil sample collected at 0833 EIP-SS272-018-1
			GW	GRAVEL, brown, well graded, wet, trace sand			
20	41/60		SC	CLAYEY SAND, brown, moist.		0 1	Soil sample collected at 0851 EIP-SS272-020-1 Geotech collected from 20'-25' at 0931
			CL	SILTY CLAY, gray, medium consistency, moist, trace small gravel			
			SW	CLAYEY SAND, brown, well graded, wet, trace gravel.		0 0	
			GW	GRAVEL, brown, well graded, saturated			
			SP	SAND, gray, poorly graded, moist, trace silt			
25	57/60			SILTY CLAY, gray, soft, moist, trace small gravel.		0 0	
			CL	SAND SEAM, gray, well graded, very moist, trace gravel.		0 0	Soil sample collected at 0912 EIP-SS272-028-1
30	49/60		SC	CLAYEY SAND, brown, moist		0 0	

MW-272 I



LOG OF BORING EIP-SS272 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U.S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

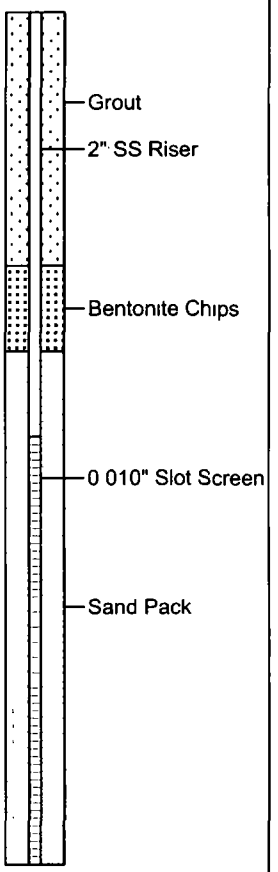
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-30-07	Total Depth	51' bgs
Finish Date	1-31-07	Location	Arrow Gear
Driller	Transhield		2301 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30			SW	SAND, tan, well graded, medium grained, wet, trace of gravel.			Soil sample collected at 0942 EIP-SS272-030-1
			SP	SAND, tan, poorly graded, medium grained, slightly moist		0 4	
			SW	SAND, tan, well graded, medium grained, slightly moist.			
35	42/60		SC	CLAYEY SAND, brown, slightly moist.		0 0	
			CL	SILTY CLAY, gray, moist, trace gravel			
			ML	SANDY SILT, gray, wet, very fine grained sand		0 0	*Soil sample collected* at 1010 EIP-SS272-038-1
			CL	SILTY CLAY, gray, moist.			
40	51/60		SW	SAND, tan, well graded, medium grained, very moist, trace gravel.		0 0	
			GW	GRAVEL, tan, well graded, moist.			
			SW	SAND, light brown, well graded, moist.			
			SP	SAND, light brown, poorly graded, very moist, trace clay.		0 1	Soil sample collected at 1056 EIP-SS272-043-1
			SC	CLAYEY SAND, gray-tan, moist, trace gravel			
45	46/60		SM	SILTY SAND, gray, well graded, fine grained, moist, trace gravel.		0 8	Soil sample collected at 1125 EIP-SS272-045-1
			SW	SAND, gray, well graded, medium grained, very moist.			
			GW	GRAVEL, gray, well graded, saturated		1 7	
			SW	SAND with clay, gray, well graded, trace large gravel			
50	41/60		GW	GRAVEL with clay, well graded, angular, very moist		0 1	No sample collected
	5/12					NA	
55				END OF BORING AT 51' Monitoring Well Developed 2/9/07			
60							

MW-272 I



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LOG OF BORING EIP-SS273 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

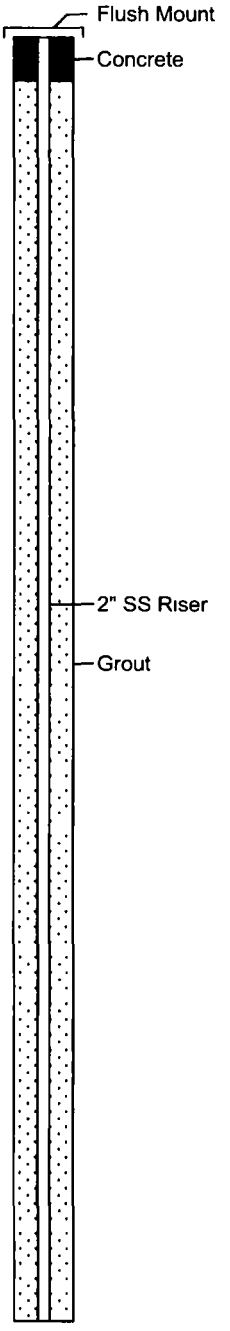
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-30-07	Total Depth	50' bgs
Finish Date	1-30-07	Location	Arrow Gear
Driller	Transhield		2301 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	GRAPHIC	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
0			AS	ASPHALT surface cover.			Soil sample collected at 1315 EIP-SS273-000-1
			GW	GRAVEL, light gray, well graded, loose			
			CL	CLAY, dark brown.		15	
				CLAYEY GRAVEL with sand, well graded, stiff, dry.			
5	41/60		GW			00	Soil sample and duplicate collected at 1321 EIP-SS273-005-1 and EIP-SS273-005-2
						10	
10	38/60			SILTY CLAY, gray, stiff, dry, trace gravel.		06	Soil sample collected at 1327 EIP-SS273-010-1
						23	
			CL	as above, plastic, moisture increases.			
15	58/60			SLOUGH from 15' to 15 6'		21	Soil sample collected at 1346 EIP-SS273-015-1
						11	
			SP	SAND, brown, poorly graded, slightly moist, trace gravel near 20'			
20	53/60					08	
			SW	SAND			
				CLAY SEAM, gray.			
				GRAVEL, tan, well graded, small rounded grains, wet.		33	
			GW				Soil sample collected at 1358 EIP-SS273-023-1
25	48/60					44	Soil sample collected at 1416 EIP-SS273-025-1
				SANDY CLAY with silt, gray, moist, very plastic, trace gravel			
			CL			36	
30	56/60					04	

MW-273 I



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LOG OF BORING EIP-SS273 I

WESTON SOLUTIONS
Restoring Resource Efficiency

U S. EPA Region V Remedial Action Contract
Work Assignment 251-RICO-B52A

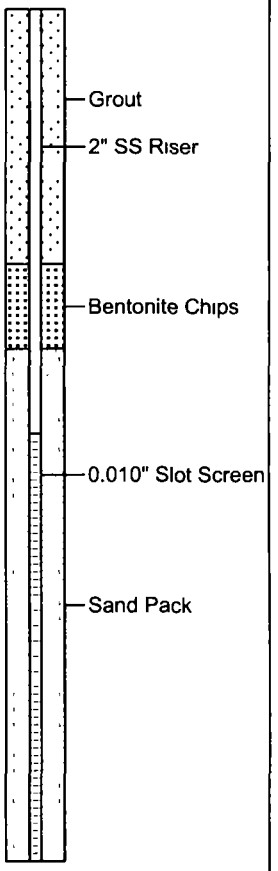
Ellsworth Industrial Park
Downers Grove, Du Page County, Illinois

Start Date	1-30-07	Total Depth	50' bgs
Finish Date	1-30-07	Location	Arrow Gear
Driller	Transhield		2301 Curtiss
Drilling Method	Geoprobe	WESTON Geologist	J Hunter
Sampling Method	Grab		

Samples
- Investigative Sample Collected
- Investigative and Confirmation Sample Collected
- Investigative with Geotech (Grain Size, CEC, ORP, TOC)

DEPTH (ft)	RECOVERY (in)	USCS	DESCRIPTION	SAMPLES	PID (ppm)	REMARKS
30		SW	SAND, tan, well graded, dry, trace angular/large gravel.			
		SC	CLAYEY SAND, tan, slightly moist.		1.8	Soil sample collected at 1447 EIP-SS273-033-1
35	39/60	ML	SANDY SILT, tan, fine grained, wet seams of wet, small, angular gravel throughout.		3 8	Soil sample collected at 1509 EIP-SS273-035-1
					0 8	
40	55/60	SP	CLAYEY SAND, gray, poorly graded, fine grained, very moist, slightly plastic.		0 1	Soil sample collected at 1538 EIP-SS273-040-1
		GW	GRAVEL, gray, well graded, wet, trace clay.		3 7	
45	40/60	GW	GRAVEL with sand, tan, well graded, wet GRAVEL with clay, tan, well graded, wet		2 1	Soil sample collected at 1559 EIP-SS273-045-1
					0 8	
50	21/60				NA	
55			END OF BORING AT 50' Monitoring Well Developed 2/12/07			
60						

MW-273 I



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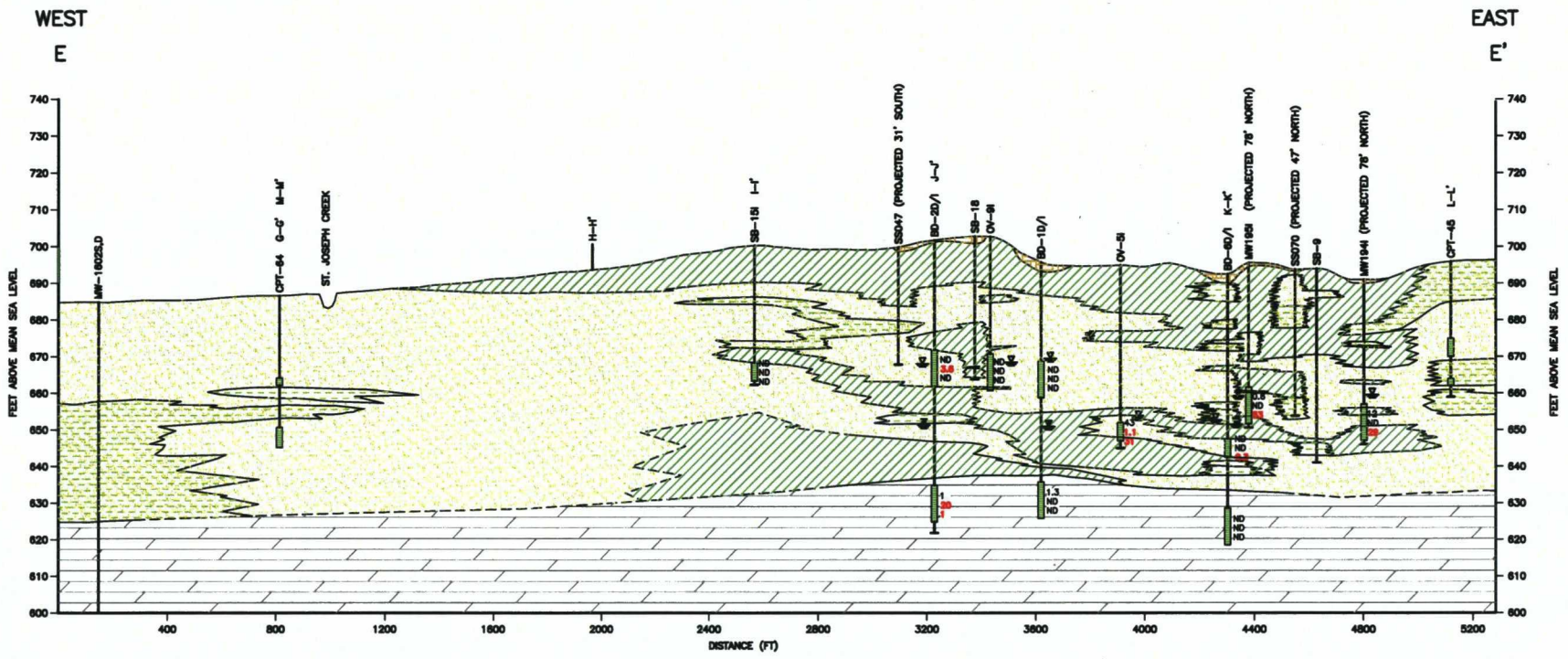
ATTACHMENT D
GEOLOGIC CROSS SECTIONS


G'
F
H'
J'
I'
K'
L'
F'
M
E
E'
D
D'
C
C'
M'
B
B'
A
A'
L
K
J
I
H
G
BURLINGTON AV
HADDOW AV
HITCHCOCK AV
CURTISS ST
WISCONSIN AV
WISCONSIN ST
ELMORE AV
ASHLEY CT
TAMARACK DR
DURAND DR
BENDING OAKS CT
BENDING OAKS PL
55TH PL
GRANVILLE AV
DRENDEL AV
CROSS ST
ROSE AV
WESTERN AV
EDWARD AV
CHASE AV
DUFFER RD
BELMONT RD
STONEWALL AV
GLENVIEW AV
THATCHER RD
KATRINE AV
JANES AV
WALNUT AV
ASHBROOK PL
CHALLEN PL
HOWARD AV
ASPEN AV
LOMOND AV
LEGEND
Cone Penetrometer
Soil Boring
Industrial Well
Monitoring Well
Residential Well
Sediment
Cross Sections
OU1 Boundary
0
350 Feet
N
Notes:
Base layers & ortho imagery
obtainned from Dupage County - Dec 2005
Prepared By:
Weston Solutions, Inc.
750 E Bunker Ct. Suite 500
Vernon Hills, IL 60061
Prepared For:
US EPA Region V
START Contract
Contract: EP-S5-0604
TDD: S05-0008-0710-019
DCN: 320-2A-ABHE
Figure 3-5
Cross-Section Location Map
Ellsworth Industrial Park
Downers Grove, Illinois



LEGEND

- FILL
- SILTY CLAY/CLAYEY SILT
- SILTY SAND/SANDY SILT/CLAYEY SAND
- SILT
- SAND/GRAVEL
- BEDROCK (DOLOMITE)
- BEDROCK WELL WATER LEVEL
- OVERBURDEN WELL WATER LEVEL
- MONITORING WELL SCREENED INTERVAL OR WATER SAMPLE INTERVAL
- ND NOT DETECTED
- NA NOT ANALYZED
- 0.39 BELOW SCREENING CRITERIA
- 0.6 EXCEEDS SCREENING CRITERIA

GROUNDWATER CONCENTRATIONS LISTED INCLUDE TCA, PCE, AND TCE (FROM TOP TO BOTTOM) FROM FEBRUARY 2007 IN ug/L.

NOTES:
1. WATER LEVELS BASED ON FEBRUARY 2007 DATA.
2. GROUNDWATER SCREENING CRITERIA DETERMINED FROM TABLE 6-4 OF THE RI REPORT.

CHEMICAL NAME	SCREENING CRITERIA (ug/L)	SOURCE
TCA	200	TACO & MCL
PCE	0.104	REGION IX PRG
TCE	0.028	REGION IX PRG

3. DASHED LINES ARE INFERRED GEOLOGIC BOUNDARIES

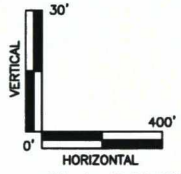


FIGURE 3-6e

Prepared for:
U.S. EPA. REGION V START
Contract No: EP-S5-06-04
TDD NO: S05-0008-0710-019
DCN: 320-2A-ABHE

Prepared by:
WESTON SOLUTIONS, INC.
750 East Bunker Court
Vernon Hills, IL

CROSS SECTION E-E'

ELLSWORTH INDUSTRIAL PARK

Downers Grove, Illinois

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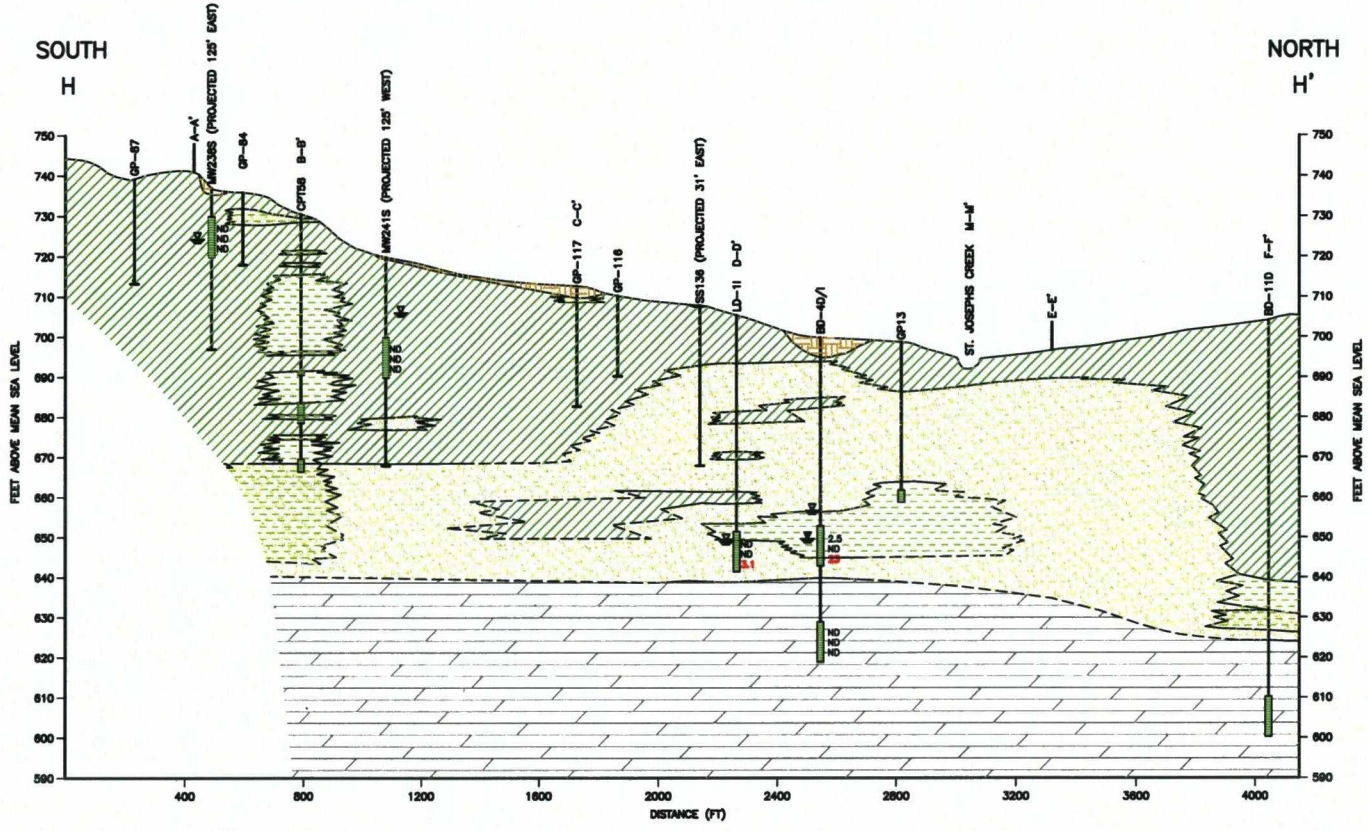

LEGEND

- FILL
- SILTY CLAY/CLAYEY SILT
- SILTY SAND/SANDY SILT/CLAYEY SAND
- SILT
- SAND/GRAVEL
- BEDROCK (DOLOMITE)
- BEDROCK WELL WATER LEVEL
- OVERBURDEN WELL WATER LEVEL
- MONITORING WELL SCREENED INTERVAL OR WATER SAMPLE INTERVAL
- ND NOT DETECTED
- NA NOT ANALYZED
- 0.39 BELOW SCREENING CRITERIA
- 0.6 EXCEEDS SCREENING CRITERIA

GROUNDWATER CONCENTRATIONS LISTED INCLUDE TCA, PCE, AND TCE (FROM TOP TO BOTTOM) FROM FEBRUARY 2007 IN ug/L.

NOTES:
1. WATER LEVELS BASED ON FEBRUARY 2007 DATA.
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CHEMICAL NAME	SCREENING CRITERIA (ug/L)	SOURCE
TCA	200	TACO & MCL
PCE	0.104	REGION IX PRG
TCE	0.028	REGION IX PRG

3. DASHED LINES ARE INFERRED GEOLOGIC BOUNDARIES

VERTICAL 30' / HORIZONTAL 0' 400'

FIGURE 3-6h

Prepared for:
U.S. EPA. REGION V START
Contract No: EP-S5-06-04
TDD NO: S05-0008-0710-019
DCN: 320-2A-ABHE

Prepared by:
WESTON SOLUTIONS, INC.
750 East Bunker Court
Vernon Hills, IL

CROSS SECTION H-H'

ELLSWORTH INDUSTRIAL PARK

Downers Grove, Illinois

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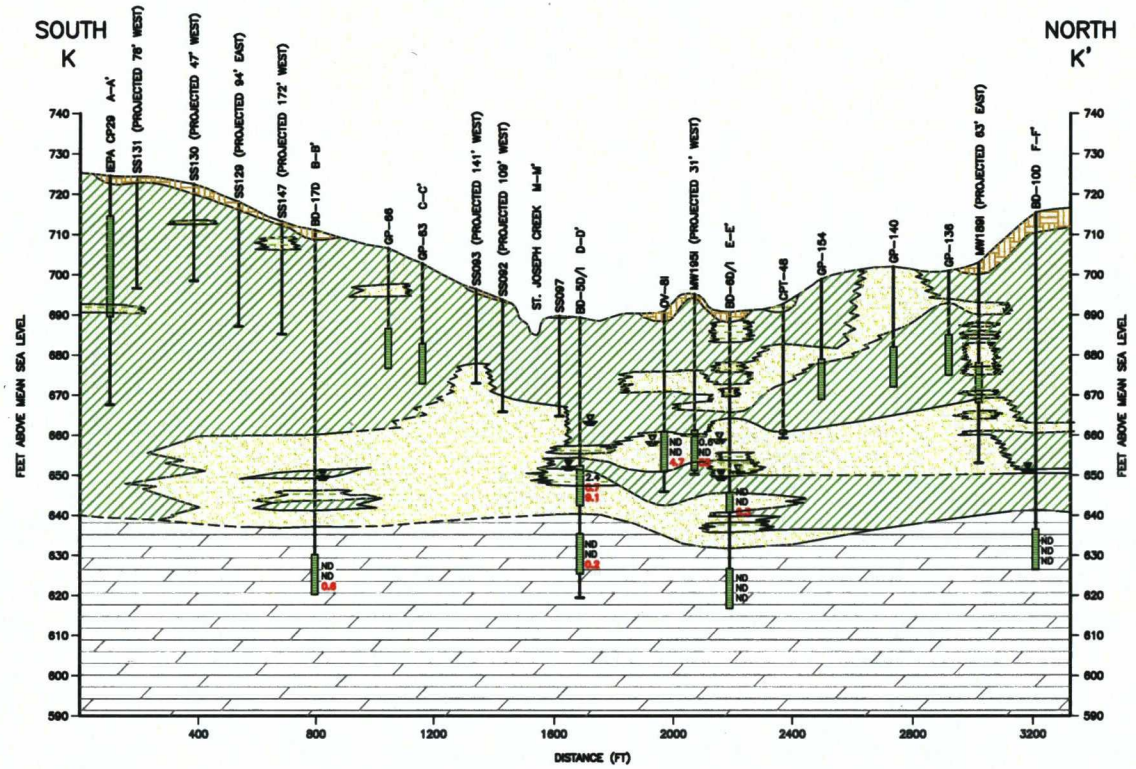

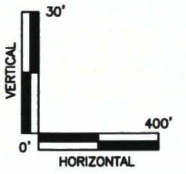

LEGEND

- FILL
- SILTY CLAY/CLAYEY SILT
- SILTY SAND/SANDY SILT/CLAYEY SAND
- SILT
- SAND/GRAVEL
- BEDROCK (DOLOMITE)
- BEDROCK WELL WATER LEVEL
- OVERBURDEN WELL WATER LEVEL
- MONITORING WELL SCREENED INTERVAL OR WATER SAMPLE INTERVAL
- ND NOT DETECTED
- NA NOT ANALYZED
- 0.39 BELOW SCREENING CRITERIA
- 0.6 EXCEEDS SCREENING CRITERIA

GROUNDWATER CONCENTRATIONS LISTED INCLUDE TCA, PCE, AND TCE (FROM TOP TO BOTTOM) FROM FEBRUARY 2007 IN ug/L.

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1. WATER LEVELS BASED ON FEBRUARY 2007 DATA.
2. GROUNDWATER SCREENING CRITERIA DETERMINED FROM TABLE 6-4 OF THE RI REPORT.

CHEMICAL NAME	SCREENING CRITERIA (ug/L)	SOURCE
TCA	200	TACO & MCL
PCE	0.104	REGION IX PRG
TCE	0.028	REGION IX PRG

3. DASHED LINES ARE INFERRED GEOLOGIC BOUNDARIES

Prepared for:
U.S. EPA. REGION V START
Contract No: EP-S5-06-04
TDD NO: S05-0008-0710-019
DCN: 320-2A-ABHE

Prepared by:
WESTON SOLUTIONS, INC.
750 East Bunker Court
Vernon Hills, IL

FIGURE 3-6k

CROSS SECTION K-K'

ELLSWORTH INDUSTRIAL PARK

Downers Grove, Illinois

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